# APPENDIX G

## PHASE I ENVIRONMENTAL SITE ASSESSMENT

# PHASE I ENVIRONMENTAL SITE ASSESSMENT
# FORMER POINT MOLATE NAVAL FUEL DEPOT
# RICHMOND, CONTRA COSTA COUNTY, CALIFORNIA

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August 29, 2019

Project Number 0351.001.001

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| µg/dL | micrograms per deciliter |
| µg/kg | micrograms per kilogram |
| µg/L | micrograms per liter |
| AAI | All Appropriate Inquiry |
| ACM | asbestos-containing material |
| APN | Assessor Parcel Number |
| AMSL | above mean sea level |
| ASTM | American Society for Testing and Materials International |
| AST | aboveground storage tank |
| AUL | activity and use limitation |
| bgs | below ground surface |
| BRAC | Base Realignment and Closure |
| BTEX | benzene, toluene, ethylbenzene, and xylenes |
| Cal-EPA | California Environmental Protection Agency |
| CAP | Corrective Action Plan |
| CCCEHSD | Contra Costa County Environmental Health Services Department |
| CCR | California Code of Regulations |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CERCLIS | Comprehensive Environmental Response, Compensation, and Liability Information System |
| CERS | California Environmental Reporting System |
| CFR | Code of Federal Regulations |
| Chevron | Chevron Corporation |
| the City | City of Richmond |
| CIWQS | California Integrated Water Quality System |
| CPS | Cleanup Program Site |
| CREC | controlled recognized environmental condition |
| CRUP | Covenant to Restrict the Use of Property |
| CVOC | chlorinated volatile organic compounds |
| DFP | Drum Filling Plant |

| | |
|---|---|
| DTSC | Department of Toxic Substances Control |
| DVECC | Disease Vector and Ecology Control Center |
| EBS | Environmental Baseline Survey |
| ECP | Environmental Condition of Property |
| EDR | Environmental Data Resources, Inc. |
| EE/CA | engineering evaluation/cost analysis |
| ENF | enforcement action |
| EPA | United States Environmental Protection Agency |
| ESA | Environmental Site Assessment |
| ESL | Environmental Screening Level |
| ETCA | Early Transfer Cooperative Agreement |
| FPAL | fuel product action level |
| FSRAP | Feasibility Study/Remedial Action Plan |
| FOSET | Finding of Suitability for Early Transfer |
| FOST | Finding of Suitability to Transfer |
| FUDS | Formerly Used Defense Sites |
| FWENC | Foster Wheeler Environmental Corporation |
| GWMP | Groundwater Monitoring Plan |
| HAZNET | Hazardous Waste Manifest Listings |
| HHRA | human health risk assessment |
| HI | hazard index |
| HQ | hazard quotient |
| HREC | historical recognized environmental condition |
| HOPs | hydrocarbon oxidation products |
| IR | Installation Restoration |
| IR Site 1 PMMP | *Final Post-Closure Maintenance and Monitoring Plan, Site 1 Final Cover* |
| IRM | interim remedial measure |
| LBP | lead-based paint |
| LUC | land-use control |
| LUST | leaking underground storage tank |
| mg/kg | milligrams per kilogram |

| | |
|---|---|
| Navy | United States Department of the Navy |
| NFRAP | no further remedial action planned |
| NFD | Naval Fuel Depot |
| NPDES | National Pollutant Discharge Elimination System |
| NPL | National Priorities List |
| OEHHA | Office of Environmental Health Hazard Assessment |
| ORS | oil recovery system |
| OWS | oil-water separator |
| PAH | polycyclic aromatic hydrocarbons |
| PCBs | polychlorinated biphenyls |
| PGWTP | packaged groundwater treatment plant |
| PMMP | Post-Closure Maintenance and Monitoring Plan |
| ppm | parts per million |
| PRG | preliminary remediation goal |
| RAO | remedial action objective |
| RCRA | Resource Conservation and Recovery Act |
| RCRA-LQG | Resource Conservation and Recovery Act Large Quantity Generator |
| RCRA-SQG | Resource Conservation and Recovery Act Small Quantity Generator |
| RECs | recognized environmental conditions |
| RI | remedial investigation |
| ROD | Record of Decision |
| RSL | Regional Screening Level |
| RWQCB | San Francisco Bay Regional Water Quality Control Board |
| SEBS | Supplemental Environmental Baseline Survey |
| SGWMP | Soil and Groundwater Management Plan |
| the Site | Former Naval Fuel Depot Point Molate property located in Richmond, Contra Costa County, California |
| SLIC | Spills, Leaks, Investigations, and Cleanups |
| the Subject Property | Former Naval Fuel Depot Point Molate property located in Richmond, Contra Costa County, California |
| SVOC | semi-volatile organic compound |
| SWIS | Solid Waste Information System |

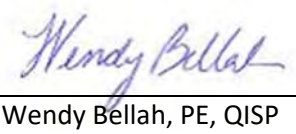
| | |
|---|---|
| SWRCB | State Water Resources Control Board |
| TCE | trichloroethene |
| TEPH | total extractable petroleum hydrocarbons |
| Terraphase | Terraphase Engineering Inc. |
| TPH | total petroleum hydrocarbons |
| UCL | upper confidence level |
| the User | Winehaven Legacy |
| UST | underground storage tank |
| UST PMMP | Post-Closure UST Maintenance and Monitoring Plan |
| VB | valve box |
| VCA | Voluntary Cleanup Agreement |
| VEC | vapor encroachment condition |
| VES | vapor encroachment screening |
| VP | valve pit |
| VOC | volatile organic compound |
| Vopak | Vopak North America Inc. |
| Water Board Order | Order No. R2-2011-0087 |
| Winehaven Legacy | Winehaven Legacy LLC |

# SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

This report is intended to meet the requirements of American Society for Testing and Materials International (ASTM) Standard Practice E1527-13 and has been prepared by the undersigned environmental professional. The environmental assessment described herein was conducted by the undersigned employees of Terraphase Engineering Inc.

The assessment consisted solely of the activities described in the Introduction of this report, and was performed in accordance with the ASTM Designation E1527-13 guidelines, as applicable, for Phase I Environmental Site Assessments and the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable. The assessment was conducted in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, professional geologists, and environmental scientists.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312, and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Wendy Bellah, PE, QISP
Principal Engineer

*August 29, 2019*
Date

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# EXECUTIVE SUMMARY

Terraphase Engineering Inc. (Terraphase) has performed a Phase I Environmental Site Assessment (ESA) of the Former Naval Fuel Depot (NFD) Point Molate property located in Richmond, Contra Costa County, California ("the Subject Property" or "the Site"). The Phase I ESA has been completed on behalf of Winehaven Legacy LLC (Winehaven Legacy), in accordance with Winehaven Legacy's authorization of Terraphase's proposal, dated August 1, 2019. The Site totals approximately 413 acres in area and consists of Contra Costa County Assessor Parcel Number (APN) 561-100-008. The Phase I ESA was performed in general conformance with the scope and limitations of American Society for Testing and Materials International (ASTM) Standard Practice E1527-13. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report.

The Site is situated in the Potrero Hills on the southern portion of the San Pablo Peninsula along the east shore of San Francisco Bay, approximately 1.5 miles north of the Richmond-San Rafael Bridge (Figure 1). The facility is bordered by undeveloped land to the north and south with the San Francisco Bay to the west, and by the Chevron Corporation (Chevron) refinery to the east. Chevron uses most of the land near NFD Point Molate for refining, storage, and pipeline distribution of petroleum products.

The Site was first developed in the early 1900s as a winery known as Winehaven. The Winehaven complex of buildings was constructed between 1907 and 1919 and included a winery, distillery, bottling facilities, housing for the workers, a hotel, and an 1,800-foot wharf. The winery used local transportation, including the ships on San Francisco Bay and the Belt Line Railroad which provided direct access from Winehaven to the larger railroad systems. Wine production ceased shortly after the Volstead Act in 1919. The Winehaven complex of buildings are listed in the National Register of Historic Places.

Beginning in 1942, the former NFD Point Molate was used by the United States Department of the Navy (Navy) for bulk fuel storage and distribution for the Pacific Fleet. The former NFD Point Molate was capable of storing more than 40 million gallons of jet petroleum fuel, marine diesel fuel, bunker fuel, gasoline, and aviation gasoline in large-capacity underground storage tanks (USTs; TtEMI 2001b). The 20 large-capacity USTs within the Subject Property boundaries have been structurally closed in-place. Although the USTs are structurally closed, many are still awaiting environmental closure.

Fuel transfer and storage activities ceased at NFD Point Molate in 1995. The former NFD Point Molate became a closing base under the Base Realignment and Closure Act IV (BRAC IV) program in September 1995, and operational closure of the facility occurred in September 1998. In September 2003, approximately 372 acres of the Site were transferred to the City of Richmond ("the City") under a Finding of Suitability to Transfer (FOST; Navy 2003). The remaining 40 acres of the 412-acre federal facility were transferred to the City on March 29, 2010, on the basis of a Finding of Suitability for Early Transfer (FOSET; Navy 2008b). The Site is currently subject to the requirements of the San Francisco Bay Regional Water Quality Control Board (RWQCB) Order No. R2-2011-0087 that replaced the previous RWQCB Orders on the site. In addition, a Covenant to Restrict the Use of Property (CRUP) was recorded on the property in 2010. The CRUP provides for various restrictions on the use of the property and prohibitions on certain types of development, as well as other restrictions.

Numerous environmental assessments and investigations have been completed at the property over the last 35 years. To facilitate the investigations and remedial activities, the Site has been subdivided into various areas including:

- Installation Restoration (IR) Sites:

    1. IR Site 1: Former Waste Disposal Area and closed landfill (Environmental Baseline Survey [EBS] Parcel 7b)

    2. IR Site 2: Sandblast Grit Areas (Portions of EBS Parcel 13, 21, and 29)

    3. IR Site 3: Treatment Pond Area (EBS Parcels 20 and 25)

    4. IR Site 4: Drum Lot 1 (EBS Parcel 32) and Drum Lot 2/Building 87 (EBS Parcels 29 and 30)

- EBS parcels 1 through 37 - Parcels 1 (Navy leased land from Chevron) and 37 (fuel transfer pier) are outside the boundaries of the Subject Property; and

- Disposal areas 1 through 13 used to describe the property in the FOST and FOSET.

Documented releases have occurred from the former Navy operations at the Site. Order No. R2-2011-0087 requires clean-up, maintenance, or monitoring of IR Site 1, IR Site 3, IR Site 4, and the hillside USTs.

Based on the information sources reviewed as part of the Phase I ESA, this assessment has revealed the following recognized environmental conditions (RECs) in connection with the Subject Property:

- Groundwater Contamination. Historical releases of petroleum and volatile organic compounds (VOCs) have resulted in impacts to groundwater at concentrations exceeding regulatory standards. Groundwater monitoring is conducted under the sitewide groundwater monitoring program.

- IR Site 2 Areas 2A and 2B. A no further action (NFA) determination for IR Site 2 Areas 2A and 2B was made based on an unrestricted reuse; however, applicable regulatory risk-based criteria have changed since that time. The results of confirmation soil samples collected from these areas exceed the current applicable regulatory screening criteria for lead for residential reuse.

- IR Site 3. IR Site 3 is the location of the former treatment ponds. Remedial activities were completed in 2014 and 2015. Additional activities are necessary before the regulatory agency issues approval of the remedial action. Groundwater monitoring for IR Site 3 is conducted under the sitewide groundwater monitoring program.

- IR Site 4. IR Site 4 includes Drum Lot 1, Drum Lot 2, and Building 87. Remedial activities have been implemented at Drum Lot 1, Drum Lot 2, and Building 87, and NFA is recommended by the Navy for soil in these areas. However, the regulatory agency has not concurred with these findings. RWQCB Order R2-2011-0087 requires completion of an additional risk assessment to evaluate potential threats to human health and the environment. Based on the outcome of this analysis, additional remediation or mitigation activities may be required in order to allow for redevelopment.

- USTs B, C, 2, 3, 5, 6, 8, 13, 15, 18, and 19. These tanks have been structurally closed in-place, but regulatory environmental closure has not been granted for these USTs. Post closure maintenance

and monitoring to reduce the chances that the tanks will become a physical hazard is conducted in accordance with the Post-Closure Maintenance and Monitoring Plan (PMMP; ITSI 2005b) and the work plan for UST structural inspections (Terraphase 2011a). Land use restrictions prohibit development in the area above the USTs. Groundwater monitoring of the UST sites is conducted under the sitewide groundwater monitoring program.

- Small USTs. Three smaller USTs (an 8,000-gallon gasoline UST and two 750-gallon diesel USTs) were removed from the Site in the 1990s. In addition, one 13,000-gallon heating oil UST under Building 6 and fifteen heating oil USTs near the former housing units located at the Site were closed in-place. Evidence of soil sampling associated with closure of these USTs was not identified in the information reviewed as part of the Phase I ESA.

- Former Small Arms Firing Range. A NFA determination for the former small arms firing range was made based on an unrestricted use assuming risk thresholds that are no longer used by the local regulatory agencies. The calculated 95% upper confidence level (UCL) for lead used in the risk assessment (193.71 milligrams per kilogram [mg/kg]) exceeds the current residential screening level used by RWQCB and the Department of Toxic Substances Control (DTSC) of 80 mg/kg, but is below the commercial/industrial screening level of 320 mg/kg. In addition, estimated adult and child 99$^{th}$ percentile blood-lead concentrations exceed the 1 microgram per deciliter (µg/dL) threshold; calculations were not completed for a commercial/industrial scenario.

- Soil in Dripline of Buildings Painted with Lead-based Paint (LBP). LBP has been identified on exterior surfaces of buildings at the Site. LBP on exterior surfaces can chip and flake and result in lead contamination in the soil near the drip lines of the buildings. No information pertaining to soil sampling conducted within the drip lines of buildings was identified during the information reviewed as part of this Phase I ESA.

- Transformers. Several pole-mounted and some pad-mounted transformers are or have been located at the Site. Seventeen of the transformers were identified as containing polychlorinated biphenyls (PCBs) at levels greater than laboratory reporting limits. PCB-contaminated transformers (i.e., transformers where PCBs were detected at concentrations greater than 50 parts per million [ppm]) were replaced, but transformers with PCBs less than 50 ppm may still be present at the Site. Information regarding the condition of the transformers (i.e., whether evidence of leaks or seeps were observed) was not found in information reviewed and soil sampling in the vicinity of the transformers was not conducted. Leaks of transformer oil with greater than 1 ppm of PCBs from the transformers may have impacted shallow soil.

- Former Railroad Tracks. Railroad tracks were constructed adjacent to the shoreline at the Site and used by Winehaven Legacy and the Navy for bulk transport. Additional railroad spurs were constructed by the Navy accessing Drum Lots 1 and 2. The railroad coincided with other areas previously investigated and locally remediated for petroleum hydrocarbons. Further investigations were conducted in the vicinity of the railroad tracks in support of development of the San Francisco Bay Trail in areas coinciding with the railroad tracks. These investigations identified areas of elevated concentrations of arsenic and lead in shallow soil above applicable regulatory screening levels.

The following controlled RECs (CRECs) were identified at the Subject Property during the Phase I ESA:

- IR Site 1. IR Site 1 is a closed landfill that was used by the Navy with wastes capped in place. A Record of Decision was filed for the Site by the Navy and approved by the RWQCB. The landfill is subject to land use restrictions and requires long-term operations and maintenance.

- USTS 1, 4, 7, 9, 10, 11, 12, 14, 16, 17 and 20 and Fuel Pipelines. The USTs were structurally closed in-place and regulatory environmental closure was received for these tanks from the RWQCB. Post-closure maintenance and monitoring to reduce the chances that the tanks will become a physical hazard is conducted in accordance with the PMMP (ITSI 2005b) and the work plan for UST structural inspections (Terraphase 2011a). Land-use restrictions prohibit development in the area above the USTs. Fuel pipelines and valve boxes were removed and addressed under the Corrective Action Plan. Residual contamination in groundwater is monitored under the sitewide groundwater monitoring program.

Based on information reviewed during the Phase I ESA, Terraphase identified the following HRECs for the Subject Property:

- IR Site 2 Areas 2C, 2D, and 2E. These subareas of IR Site 2 have received closure from the regulatory agency with unrestricted reuse. A review of the results of the confirmation samples collected from these areas are below applicable residential regulatory screening criteria.

Terraphase identified the following de minimis condition during this Phase I ESA.

- Building 18. Previous investigations found a small area of trichloroethene (TCE) detected in soil and groundwater at concentrations below applicable regulatory criteria.

- Aboveground Storage Tanks (ASTs). Numerous ASTs have previously operated at the Site. Many of the ASTs have been removed, although some remain at the Site. Evidence of releases were not reported in information reviewed or observed during the site reconnaissance. Any residual surface contamination that may be encountered will be addressed through the Soil and Groundwater Management Plan (SGWMP).

# 1.0 INTRODUCTION

At the request of Winehaven Legacy LLC (Winehaven Legacy), Terraphase Engineering Inc. (Terraphase) has completed this Phase I Environmental Site Assessment (ESA) of the Former Naval Fuel Depot (NFD) Point Molate property located in Richmond, Contra Costa County, California ("the Subject Property" or "the Site"). This Phase I ESA includes information gathered from federal, state, and local agencies; review of historical documents; a reconnaissance visit; interviews; and a review of previously conducted environmental studies. The qualifications of the environmental professional who prepared this report are included in Section 11.

## 1.1 Purpose

The purpose of a Phase I ESA is to evaluate the potential for environmental contamination on the Subject Property, and to evaluate if contamination could potentially occur in the future because of activities or conditions on or near the Subject Property. The Phase I ESA was generally conducted in accordance with the processes prescribed in the American Society for Testing and Materials International (ASTM) *E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

This Phase I ESA assesses for recognized environmental conditions (RECs) at the Subject Property. As defined by ASTM, a REC is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or the material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term REC includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include "de minimis" conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

In accordance with ASTM E1527-13, this Phase I ESA also identifies controlled RECs (CRECs) and historical RECS (HRECs) at the Subject Property. CRECs are defined by ASTM as an environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (such as land use restrictions or engineering controls). HRECs are defined by ASTM as a past release of hazardous substances or petroleum products that has occurred in connection with the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by regulatory authority without subjecting the property to any required controls (such as land use restrictions). It is important to note that ASTM identifies that before calling a past release an HREC, the environmental professional should determine if the past release is a REC at the time the Phase I ESA is completed (for example, if there has been a change in regulatory criteria).

## 1.2 Phase I ESA Scope of Services

The following services were included in this Phase I ESA:

- interviews with present owners, operators, and occupants familiar with the Subject Property;
- review of historical sources of information, such as aerial photographs, topographic maps, and land use records;
- review of previously conducted environmental studies;
- review of government records, including regulatory reports for both the Subject Property and adjoining properties;
- review of an environmental database search;
- review of local regulatory agencies that have jurisdiction over hazardous waste management, permitting, and site investigations;
- reconnaissance level visual inspection of the Subject Property, including observations of adjoining properties and general land uses, with photographs to document current conditions;
- review the Subject Property to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for on-site releases of hazardous materials and petroleum products resulting from current and historical land use activities and nearby operations; and
- preparation of a report that documents our research, observations, and the results of the environmental inquiry, which specifically identifies any properties that will require invasive site investigation, including a summary of conclusions.

### 1.2.1 Non-Scope Services

As defined pursuant to Section 13.1.5 of the ASTM Standard Practice, the following list includes several non-scope considerations. Non-scope considerations are considered beyond the scope of standard practice and no assessment of such non-scope considerations is required as defined by ASTM Standard Practice.

No implication is intended as to the relative importance of such non-scope considerations and the list below is not intended to be all inclusive:

- testing of building materials for presence of asbestos-containing material (ACM) and/or other hazardous building materials such as lead-based paint (LBP),
- biological agents,
- cultural and historical resources,

- ecological resources,
- endangered species,
- health and safety,
- indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment,
- industrial hygiene,
- lead in drinking water,
- methane gas,
- mold,
- testing for presence of radon,
- regulatory compliance,
- wetlands, and
- compliance with activity and use limitations.

### 1.2.2 Significant Assumptions

This Phase I ESA provides appropriate inquiry into the previous ownership and use of the Subject Property consistent with good commercial and customary practice in an effort to minimize liability. Terraphase also assumes that the information provided by Winehaven Legacy, the regulatory database provider, the City of Richmond, and regulatory agencies is true and reliable.

### 1.2.3 Limitations and Exceptions

This document was prepared for the use of Winehaven Legacy. No other party should rely on the information contained herein without the prior written consent of Terraphase and Winehaven Legacy.

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by Terraphase and Winehaven Legacy. This report was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry as practiced in California. To the extent that Terraphase relied upon any information prepared by other parties not under contract to Terraphase, no representation as to the accuracy or completeness of such information is made. Only Winehaven Legacy may make use of and rely upon the information in this report.

This information can only be utilized for a period not to exceed 180 days in accordance with ASTM's “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”

ASTM Designation E1527-13, and/or the Code of Federal Regulations (CFR) 40CFR Part 312 "Standards and Practices for All Appropriate Inquiries: Final Rule," dated November 1, 2005, and amended December 30, 2013. After 180 days, the report must be updated in accordance with ASTM Standards and federal regulations.

The findings presented in this report apply solely to conditions existing at the time of the assessment. It must be recognized, however, that a Phase I ESA is intended for the purpose of evaluating the potential for contamination through limited research and investigative activities, and in no way represents a conclusive or complete characterization. Conditions in other parts of the Subject Property may vary from those at the locations where data were collected.

Terraphase's interpretation of investigation results is related to the availability of the data and the extent of the investigation activities; 100% confidence in Phase I ESA conclusions cannot reasonably be achieved. Therefore, Terraphase does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards.

### 1.2.4 User Reliance

This document was prepared for the use of Winehaven Legacy. No other party should rely on the information contained herein without the prior written consent of Terraphase and Winehaven Legacy.

# 2.0 SUBJECT PROPERTY DESCRIPTION

## 2.1 Subject Property Description

The former NFD Point Molate is on the San Pablo peninsula, approximately 1.5 miles north of the Richmond-San Rafael Bridge in the City of Richmond, California (Figure 1). The San Pablo peninsula is the land mass between San Pablo Bay and San Francisco Bay. The former NFD Point Molate covers approximately 413 acres in the Potrero Hills along the northeastern shore of San Francisco Bay, of which 140 acres are submerged. The former NFD Point Molate contains approximately 1.6 miles of shoreline, and its property extends into adjacent hillsides up to the top of the San Pablo ridge. Topography ranges from flat, filled areas (reclaimed tidal areas) near the Bay, to steep, dissected slopes of nearly 500 feet in elevation. The facility is bordered to the north, south, and east by the Chevron Corporation (Chevron) Richmond refinery and to the west by San Francisco Bay. Refer to Figure 2 for Site features. The former NFD Point Molate is identified by Contra Costa County Assessor Parcel Number 561-100-008.

Beginning in 1942, the former NFD Point Molate was used by the United States Department of the Navy (Navy) for bulk fuel storage and distribution for the Pacific Fleet. The former NFD Point Molate was capable of storing more than 40 million gallons of jet petroleum fuel, marine diesel fuel, bunker fuel, gasoline, and aviation gasoline in 24 large-capacity underground storage tanks (USTs; TtEMI 2001b). Twenty of the Large Hillside USTs were located on the subject property and four of the USTS (21 through 24) were located adjacent to the northeastern boundary of the subject property on land leased from Chevron. Fuel transfer and storage activities ceased at NFD Point Molate in 1995. The former NFD Point Molate became a closing base under the Base Realignment and Closure Act IV (BRAC IV) program in September 1995, and operational closure of the facility occurred in September 1998.

In September 2003, approximately 372 acres of the Site were transferred to the City of Richmond ("the City") under a Finding of Suitability to Transfer (FOST; Navy 2003). The remaining 40 acres of the 412-acre federal facility were transferred to the City on March 29, 2010 on the basis of a Finding of Suitability for Early Transfer (FOSET; Navy 2008b).

The City entered into an Early Transfer Cooperative Agreement (ETCA; Navy 2008a) with the Navy for the environmental remediation of the former NFD Point Molate to satisfy the requirements of the then Draft Site Clean-up Requirements developed by the San Francisco Regional Water Quality Control Board (RWQCB). Subsequently, the Site Clean-up Requirements were formally adopted by the RWQCB on December 19, 2011 in Order No. R2-2011-0087 (the Water Board Order). A copy of the Water Board Order is included in Appendix A.

Order No. R2-2011-0087 required investigation, risk assessment, clean-up, maintenance or monitoring in the following areas as shown on Figure 3 and as follows:

1. Installation Restoration (IR) Site 1: Former Waste Disposal Area and closed landfill
2. IR Site 3: Treatment Pond Area
3. IR Site 4: Drum Lot 1 and Drum Lot 2/Building 87

4. Large Hillside Underground Storage Tanks

Further, the Water Board Order requires ongoing groundwater monitoring and provides a process for removal and demolition of Large Hillside USTs as well as modification of existing Land-Use Controls (LUCs).

## 2.2 General Vicinity Description

The Site is bordered to the west by San Francisco Bay and to the north, south, and east by property owned by Chevron. The property to the north is currently used as open space (formerly a Chevron tank farm that has been decommissioned) with an active private pistol and rifle range which is part of the Chevron Rod and Gun Club, and the Chevron Point Orient Pier which is now inactive. Property to the east consists of the Chevron Richmond Refinery, an operating refinery with a production capacity of 240,000 barrels of crude oil per day. The top of Potrero Ridge topographically separates the Subject Property from the oil refinery which is located on the east side of the ridge. Property to the south consists of an active quarry operated by Dutra Materials and a Chevron aboveground tank farm beyond.

## 2.3 Site Geology and Hydrogeology

The following subsections briefly describe the regional geology of the former NFD Point Molate and the surrounding area as well as site-specific geologic conditions.

### 2.3.1 Regional Geology

The regional geology includes bedrock and an unconsolidated sedimentary sequence. The bedrock along the San Pablo ridge is composed primarily of sedimentary rocks of the late-Jurassic and Cretaceous-age Franciscan Complex (TtEMI 2000a). The Franciscan Complex is characterized by complex, highly faulted sediments and metasediments that include subduction or collision complexes (TtEMI 2000a). Regionally, the Franciscan Complex is a heterogeneous assemblage consisting of sequences of graywacke (sandstone), shale, and lesser amounts of mafic volcanic rocks, thin bedded chert, and rare limestone (Irwin 1990). The Franciscan Complex occurs throughout the San Pablo peninsula (Blake et al. 1974) and crops out along the summit of San Pablo peninsula and in quarries at Point San Pedro.

The regional geology of San Francisco Bay also includes a young, unconsolidated sedimentary sequence. Among these sediments is the Younger Bay Mud, important hydrogeologically because it serves as an aquitard in many areas. The Younger Bay Mud is the youngest sedimentary unit in the San Francisco Bay. The unit covers most of the bay bottom. It is described as a soft, uniform, gray, silty clay containing 45 to 95 percent clay-sized particles, silt, minor fine sand, and fragments of shells. The thickness of the Younger Bay Mud along the southwest shore of the San Pablo peninsula at the former NFD Point Molate is mapped as zero to approximately 40 feet thick offshore (TtEMI 2000a).

The Franciscan bedrock underlying the San Pablo ridge is part of a northwest-southeast trending belt of rocks bounded on the west by the San Andreas Fault and on the east by the Hayward Fault (TtEMI 2000a). Preliminary geologic maps show that the San Pablo ridge (in the Potrero Hills peninsula) is bounded on the northeast by the San Pablo Fault and possibly by a fault to the southwest (Blake et al. 1974). Although the character of these faults is uncertain, the San Pablo Fault is considered to be either

a high-angle oblique, slip fault or a thrust fault (TtEMI 2000a). Both faults are considered to be inactive (TtEMI 2000a).

### 2.3.2 Former NFD Point Molate Geology

The geology at the former NFD Point Molate includes sedimentary and slightly metamorphosed rocks of the Franciscan Complex bedrock and unconsolidated colluvial, alluvial, and reworked intertidal deposits, Younger Bay Mud, and emplaced fill material (TtEMI 2000a). The geology and physical characteristics of the bedrock and unconsolidated deposits are described below.

The Franciscan bedrock at the former NFD Point Molate consists of friable (weathered) sandstone to low-grade metamorphic sandstone (quartzite), some sand and gravel conglomerate, mudstone, and shale, which is highly fractured and locally folded in some locations (TtEMI 2001b). The weathered sandstone surface and fissile shale may be pathways for groundwater or contaminant migration; however, competent bedrock is not transmissive (TtEMI 2001a). Outcrops of the Franciscan Complex with shale interbeds are prominent in the hillsides of the former NFD Point Molate (TtEMI 2000a).

The contact between bedrock and overlying (colluvial) deposits in most areas of the former NFD Point Molate is transitional (TtEMI 2000a). This transition zone grades upwards from fresh bedrock to moderately weathered bedrock composed of broken and weathered bedrock fragments to highly weathered clay-rich zones containing oxidized, friable clasts or fragments of bedrock (TtEMI 2000a).

Colluvium at the former NFD Point Molate usually overlies bedrock or weathered bedrock. Colluvium is predominantly clayey and silty sand with weathered bedrock fragments (TtEMI 2000a). Colluvium is found on slopes and at the base of slopes, filling many of the ravines throughout the former NFD Point Molate (TtEMI 2000a). The thickness of colluvium varies from a veneer of weathered bedrock fragments on the slopes to accumulations up to 25 feet thick within ravines (TtEMI 2000a). The colluvium, olive gray to yellowish brown, often displays a mottled texture (TtEMI 2000a). These deposits are generally poorly sorted and often contain up to 50 percent rock fragments (TtEMI 2000a). The colluvium's clayey matrix makes it dense with low permeability (TtEMI 2000a).

The reworked intertidal deposits consist mainly of greenish-gray (glauconitic) silty sand and sandy silt with numerous small shell fragments (TtEMI 2000a). Also common are pebbles or rock fragments consisting of subrounded quartzite and angular-to-subrounded siltstone and sandstone (TtEMI 2000a). Glauconitic sandstone pebbles are common (TtEMI 2000a). The sediments contained in the intertidal deposit are generally very well sorted for each size range encountered (TtEMI 2000a). The rounding of the sediments is, in general, indicative of reworked beach or near-shore deposits (TtEMI 2000a). Bedrock rubble and rock fragments within a wet, clayey matrix also make up a portion of the reworked intertidal deposits (TtEMI 2000a).

The Younger Bay Mud was encountered in borings beneath emplaced fill material or alluvium in the treatment ponds area and adjacent shoreline areas (TtEMI 2000a). In these areas, the Younger Bay Mud overlies bedrock and may vary in thickness between 5 and 30 feet, increasing toward the shoreline (TtEMI 2000a). The Younger Bay Mud is a dark-brown-to-black clayey or sandy silt or silty sand. The

formation is typically soft, plastic, and moist or saturated but contains sufficient clay or silt to serve as an aquitard (TtEMI 2000a).

Alluvium and emplaced fill overlie the Younger Bay Mud. Alluvium consists of moderately sorted, fine-to-medium-grained, unconsolidated sand. In general, grain size increases with depth, and coarse intervals containing granules or pebbles become more prevalent with depth (TtEMI 2000a). On the basis of lithology, the alluvium would likely be a transmissive unit (TtEMI 2000a).

Emplaced fill at the facility was transported from other areas at the former NFD Point Molate. The fill is composed of highly variable materials generally consisting of poorly sorted gravel, silt, sandy silt, sandy clay, and angular bedrock fragments, and is organic-rich in areas. The fill often contains areas (or pockets) of disturbed colluvium, but in general is unconsolidated and heterogeneous and creates unpredictable preferential flow pathways for groundwater and contaminant migration.

### 2.3.3 Hydrogeology

Groundwater at NFD Point Molate is present in limited quantities in the hillside areas and more prevalently in the flat-lying near-shore areas, where the groundwater forms a highly variable (tidally influenced) water table that is in hydraulic connection with San Francisco Bay (ITSI 2005a).

In the hillside areas, groundwater is limited to isolated perched zones, located primarily within weathered bedrock. Colluvium in the ravines generally inhibits groundwater movement, due to its predominantly clay matrix. However, some ravines receive sufficient surface water recharge (seasonally) that groundwater occurs within permeable zones at the base of the colluvium and within underlying fractured bedrock horizons (Terraphase 2019b).

In near-shore areas, tidally influenced groundwater is present in the emplaced fill and underlying colluvial and alluvial deposits.

The predominant groundwater flow direction is reported to follow site topography, with groundwater moving from the hillside ridges toward the axes of drainage areas, and ultimately toward the Bay (Terraphase 2019b). Groundwater gradients vary depending on the proximity to the Bay shoreline, with highest gradients between wells situated on hillside ridges and wells in the axis of the drainages (i.e., drainage wells; Terraphase 2019b).

Groundwater elevations in the wells measured in April 2019 varied from 12 feet below ground surface (bgs; 1.22 feet above mean sea level [AMSL] in monitoring well MW11-55R) to 29.3 feet bgs (370.32 feet AMSL in monitoring well MWT13-02) and generally reflected site topography (Terraphase 2019b). Groundwater elevations at the site fluctuate seasonally and are generally 1 to 3 feet higher during the wet season than during the dry season (Terraphase 2019b).

In 2004, Sullivan Consulting completed a study to evaluate the beneficial use of the groundwater at the site as drinking water. This study concluded that the groundwater at the Site does not have a beneficial use as drinking water (Sullivan and TtEMI 2004). Further land-use restrictions for the Site restrict the use of groundwater so that groundwater cannot be used for drinking water or other uses without RWQCB approval (CCC 2010).

# 3.0 CLIENT/USER PROVIDED INFORMATION

The following section summarizes information provided by a representative of Winehaven Legacy ("the User") with regard to the Phase I ESA. A completed questionnaire was received by Terraphase and information incorporated into the report, as applicable. A copy of the completed questionnaire is included in Appendix B.

## 3.1 Title Record

No title records were reviewed as part of this Phase I ESA. Given the information regarding the historical uses of the property, this is not considered a significant data gap.

## 3.2 Environmental Liens and Activity and Use Limitations

The User indicated they were not aware of any environmental liens or activity and use limitations (AULs) associated with the Subject Property. However, information reviewed as part of the Phase I ESA indicates a LUC document has been developed and recorded for the Former NFD Point Molate. The LUC in this situation is known as a covenant to restrict use of the property (CRUP) and was recorded in Contra Costa County on March 29, 2010 (CCC 2010).[1] A copy of the CRUP is included in Appendix C.

### 3.2.1 Summary of Covenant to Restrict Use of Property

The CRUP protects the public during the completion of site remediation activities and provides for the necessary access to complete those activities. In some cases, the CRUP may need to be amended as appropriate, depending on the scope of each proposed cleanup action for areas of the Site that do not meet unrestricted use standards. Proposed amendments to the CRUP, as needed, are required to be submitted to the RWQCB for review and approval.

The CRUP places use and activity restrictions on the Site (the FOSET Property and the 2003 CRUP which are the areas indicated on Figure 4) until the RWQCB makes the written determination that the necessary remedial actions have been completed or that the restrictions are no longer necessary to protect human health or the environment. In accordance with the CRUP, the Site (FOSET Property and the 2003 CRUP) shall not be used for any of the following purposes:

- A residence including any mobile home or factory-built housing constructed or installed for use as residential human habitation.
- Hospitals for humans, schools for persons under 21 years of age, day care centers for children, or any permanently occupied human habitation.

In accordance with the CRUP, the Owner or Occupant shall not engage in any of the following activities in or on the Site (FOSET Property or the 2003 CRUP Property), without written approval of the RWQCB:

[1] A CRUP was also filed in 2003 in association with the FOST. The 2010 CRUP replaced the 2003 CRUP.

- Remove and dispose of contaminated soil or groundwater unless in accordance with all applicable federal, state, and local regulations governing removal, transport, and disposal of hazardous substances and hazardous waste;
- Conduct dewatering activities unless in accordance with a RWQCB-approved dewatering workplan;
- Disturb nor use existing groundwater monitoring wells and other test wells without the prior written approval of the RWQCB;
- Disturb nor excavate soils greater than 24 inches bgs for any purpose other than environmental investigation or remediation unless Owner or Occupant provides prior notice to, and obtains approval of, the RWQCB to the extent, and in the manner, such approval is required under an approved soil and groundwater management plan applicable to the relevant area and the proposed excavation is implemented in a manner consistent with the requirements of that soil and groundwater management plan; if the excavation is consistent with the requirements of the applicable soil and groundwater management plan, and that plan does not require additional prior approval by the RWQCB, then no such approval is required for the specific excavation work. If the RWQCB has not approved a soil and groundwater management plan applicable to the area, or if the proposed excavation is inconsistent with the requirements of the soil and groundwater management plan, Owner or Occupant shall obtain RWQCB approval prior to disturbing any soils as described above.
- Install groundwater production wells nor use the groundwater for residential, municipal, agricultural, or industrial uses without the written approval of the RWQCB;
- Use nor access USTs or property on or around the USTs for a distance of 150 feet from the perimeter of the UST for any reason in a manner that may disrupt the structural integrity of the USTs, unless a licensed structural engineer certifies that such use, in conjunction with any appropriate mitigation measures, would not adversely affect the structural integrity of the UST, and the local government entity that issues permits for the installation of USTs gives its prior approval for such use;
- Install, place, cover, nor load the top of any UST with any combination of structures, vehicles, or equipment, unless a licensed structural engineer certifies that such activity, in conjunction with any appropriate mitigation measures, would not adversely affect the structural integrity of the UST, and the local government entity that issues permits for the installation of USTs gives its prior approval to such activity. This restriction shall apply to all USTs;
- Remove any UST, nor disturb the soil in preparation for removing a UST, unless in accordance with a RWQCB-approved workplan for such removal or disturbance.

### 3.2.2 Summary of LUC at IR Site 1

The CRUP prescribes restrictions in the long-term operation and maintenance of the landfill in IR Site 1. According to the CRUP, the land in IR Site 1 shall not be used for any of the following purposes:

- A residence including any mobile home or factory-built housing constructed or installed for use as residential human habitation; and
- Hospitals for humans, schools for persons under 21 years of age, day care centers for children, or any permanently occupied human habitation.

In addition, the CRUP places the following activity restrictions on IR Site 1:

- Engaging in any activity which disturbs, breaches, or otherwise affects the integrity of the soil cover; and
- Extracting or using groundwater for any purpose other than monitoring, remediation, or construction dewatering.

### 3.2.3 Soil and Groundwater Management Plan

The CRUP makes reference to complying with the requirements of the Soil and Groundwater Management Plan (SGWMP; Terraphase 2012a). The SGWMP was prepared for activities that may disturb soil or produce groundwater at the Subject Property. The SGWMP was approved by the RWQCB on August 21, 2012 (RWQCB 2012a). The SGWMP allows for and describes protocols that must be followed in order to complete soil disturbance and building demolition activities at the Site. Examples of activities covered by the SGWMP include, but are not limited to, landscaping, installing and maintaining utilities, grading, trenching, installing deep foundations, drilling borings for subsurface exploration or monitoring well installation, building demolition, and constructing subsurface structures. The SGWMP covers all portions of the Site except for IR Site 3 and IR Site 4 (Figure 3), which are currently undergoing site-specific remediation activities. Planned subsurface disturbances associated with soil and groundwater remediation activities at IR Site 3 and IR Site 4 must be addressed on a site-specific basis as described in the RWQCB Order. Recent remedial activities at IR Site 3 will require the SGWMP to be amended to incorporate specific requirements for activities conducted in IR Site 3, however, as of the writing of this Phase I ESA, these amendments to the SGWMP have not been completed. A copy of the SGWMP is included in Appendix D.

## 3.3 Specialized Knowledge

The User indicated to Terraphase that it has no specialized knowledge (as defined in the All Appropriate Inquiries, or AAI, rule) regarding the Subject Property.

## 3.4 Commonly Known or Reasonable Ascertainable Information

The User indicated to Terraphase that commonly known or reasonably ascertainable information related to the Subject Property included knowledge of the past use of the property by the Navy as a fuel depot and as a winery prior to the Navy's ownership. The User indicated that they were not aware of any spills or releases that have taken place, but that they were aware of USTs that have been removed from the Site.

## 3.5 Valuation Reduction for Environmental Liens

The User indicated that the purchase price has been valuated based on a reasonable cost to remove the remaining USTs at the Subject Property.

## 3.6 Owner, Property Manager, and Occupant Information

The owner of the Subject Property is identified as the City of Richmond. The City leases a portion of Building 6 to an alcohol distributor, and a security guard is present at the Site. There are currently no other occupants at the Site.

## 3.7 Reasons for Performing the Phase I ESA

Terraphase has been engaged by the Client to perform this Phase I ESA for the Subject Property to identify “Recognized Environmental Conditions” (as defined in ASTM E1527-13) to help identify potential environmental liabilities associated with the Site prior to a potential transaction as a bona fide prospective purchaser.

# 4.0 HISTORICAL REVIEW

Terraphase reviewed a variety of sources to develop the history of the Site and adjacent properties to assess for environmental concerns. These resources included the following:

- aerial photographs, provided by Environmental Data Resources, Inc. (EDR), for years 1939, 1946, 1953, 1958, 1963, 1968, 1974, 1982, 1993, 1998, 2005, 2009, 2012, and 2016;
- city directories for the Subject Property and adjoining properties, provided by EDR, for the years between 1975 and 2014, in approximately five-year increments; and
- topographic map excerpts, provided by EDR, of San Francisco and San Quentin quadrangles, dated 1895, 1899, 1915, 1947, 1948, 1959, 1973, 1980, 1995, 1996, and 2012.

Historically and/or environmentally significant findings from the maps and photographs are summarized below. Copies of historical aerial photographs, city directories, and topographic maps from EDR are provided in Appendices E, F, and G respectively. According to EDR, Sanborn Fire Insurance Maps were not available for the Subject Property; the certification of no coverage is included in Appendix H.

## 4.1 Aerial Photographs

On the 1939 aerial photograph, the buildings associated with the Winehaven winery are visible, but the remainder of the Site appears undeveloped. Several large aboveground storage tanks (ASTs) are visible to the north of the Subject Property, and a small pier with several small boats are visible to the south of the Subject Property. Railroad tracks are visible running adjacent to the shoreline connecting via rail the Winehaven buildings to the small pier south of the Subject Property. It appears that a small pond is present in the vicinity of IR Site 3.

In the 1946 aerial photograph, the Subject Property is significantly more developed. Several roads winding through the hills are visible on the aerial photograph with evidence of the large hillside tank construction UST construction in the form of driveway and cleared areas. The Winehaven buildings are still present at the Site, along with evidence of storage of materials within Drum Lots 1 and 2. A pier emanating from Drum Lot 1 is visible and the pier formerly associated with the Winehaven activities appears to have fallen into disrepair. The small pond visible in the 1939 aerial photograph in the vicinity of IR Site 3 appears to have expanded by 1946 and is presumably in use by the Navy as a sump at this time. Evidence of fill in the landfill area (IR Site 1) is not visible in the 1946 aerial photograph. The railroad tracks still run adjacent to the shoreline with additional spurs extending into the Drum Lot 1 and Drum Lot 2 storage areas. Outside of the Subject Property boundaries, significant development and filling of the bay is visible in the 1946 aerial photograph to the east and north. Quarrying activities are visible in the property to the south of the Site.

Significant changes to the Subject Property and general vicinity are not noted in the 1953, 1958, 1963, 1968, or 1974 aerial photographs, except a large AST is visible at the Site beginning with the 1953 aerial photograph. Based on the location, it appears this AST is Tank D. Tank E and F are visible in the 1958 aerial photograph.

In the 1982 aerial photograph, the three treatment ponds are visible in the area of IR Site 3 and the larger sump has been filled. AST Tank G is also visible. Storage within Drum Lot 1 and Lot 2 does not appear as extensive as in previous photographs. Evidence of rail cars within Drum Lot 2 is still visible. To the south of the Subject Property, ASTs are visible in the area where quarry activities were formerly evident. Significant changes to the Subject Property and surrounding vicinity are not evident in the 1993 and 1998 aerial photographs, although Tank D is no longer visible beginning on the 1993 aerial photograph.

In the 2005 aerial photograph, the three treatment ponds are no longer visible and the area appears to have been filled. Tanks E, F, and G are no longer visible in the 2005 aerial photographs. No other significant changes are visible to the Subject Property or vicinity in the 2009 and 2012 aerial photographs. In the 2016 aerial photograph, IR Site 3 has been disturbed and graded.

## 4.2 City Directories

The EDR City Directory report (EDR 2019c) includes a search of available city directory data between 1920 and 2014. No listings associated with the Subject Property were identified in the city directories.

## 4.3 USGS Topographic Maps

The 1895 and 1899 topographic maps depict the Subject Property and surrounding area as an undeveloped peninsula in San Francisco Bay.

Winehaven is depicted on the 1915 map and consists of two large structures, several smaller structures, and a pier. A railroad runs through the Site and around the peninsula. Several small structures are indicated on the map in the area of the Chinese Shrimp Fishing Village and Molate Point. Point Orient is indicated to the north of the Site.

In 1947 and 1948, Winehaven is still depicted on the maps and the buildings are still present. The Navy pier extending from Molate Point is indicated on the maps, and the Winehaven pier is shown in disrepair. The topographic maps also show the Richmond Belt Railway alignment along the shoreline.

The Naval Fuel Supply Depot is indicated on the 1959 map. The Site appears fully developed with the sump pond and rail spurs in Drum Lots 1 and 2 indicated. Significant changes are not indicated in the 1973, 1980, 1995, and 1996 maps except that the sump pond appears in the configuration of three treatment ponds beginning in 1980.

The Naval Fuel Depot is still indicated on the 2012 map, although buildings and other features are not indicated on the map.

# 5.0 AGENCY RECORDS REVIEW

Terraphase reviewed applicable and reasonably ascertainable federal, state, and local environmental-related databases as part of this Phase I ESA, discussed below. These sources of information, as well as historical sources, prior assessments, interviews conducted, and site observations (discussed in Sections 4, 6, 7, and 8) were found to be sufficient for Terraphase to evaluate for the existence of RECs, HRECs, CRECs, and/or *de minimis* conditions as part of this Phase I ESA. Therefore, an in-person review of the county or state records by Terraphase was found to be unwarranted (as defined in the ASTM standard, Section 8.2.2).

## 5.1 Standard Environmental Record Sources

EDR provided the regulatory agency database report discussed in this section. Terraphase reviewed the EDR report for information regarding reported releases of hazardous substances and petroleum products on or near the property. Specific records and search distances (measured from the approximate property boundary of the Subject Property) for the environmental databases were reported by EDR to be consistent with ASTM Practice E 1527-13 and are discussed in the EDR report, dated August 5, 2019. The EDR Radius Map™ Report is presented as Appendix I.

A list of the government records searched, including the definition of the acronyms used, is provided in the EDR Report. The following table summarizes database results found within ASTM standards. Listings for the Subject Property and relevant listings regarding the nearby properties are further discussed below.

| Regulatory Database | ASTM Search Distance (miles) | Subject Property Listed | Nearby Listings[1] |
|---|---|---|---|
| Federal NPL | 1 | No | 0 |
| Federal Delisted NPL | 0.5 | No | 0 |
| Federal CERCLIS list (SEMS) | 0.5 | No | 1 |
| Federal CERCLIS NFRAP list | 0.5 | No | 0 |
| Federal RCRA CORRACTS facilities list | 1 | No | 0 |
| Federal RCRA non-CORRACTS TSD facilities list | 0.5 | No | 0 |
| Federal RCRA generators list | Subject and adjoining | No | 4 |
| Federal IC/EC registries | Subject | No | 0 |
| Federal ERNS list | Subject | No | 0 |
| State- and tribal-equivalent NPL | 1 | No | 1 |
| State- and tribal-equivalent CERCLIS | 0.5 | No | 4 |
| State and tribal landfill and/or solid waste disposal lists | 0.5 | Yes | 0 |
| State and tribal leaking storage tank list | 0.5 | No | 7 |
| State and tribal registered storage tank lists | Subject and adjoining | No | 0 |
| State and tribal VCP sites | 0.5 | No | 0 |
| State and tribal Brownfield sites | 0.5 | No | 0 |

Notes:
1. Nearby listings are records for sites other than the Subject Property that were identified within the ASTM search distance.

CERCLIS – Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS – RCRA Corrective Action Sites
ERNS – Emergency Response Notification System
IC/EC – Institutional control / engineering control
NFRAP – no further remedial action planned
NPL – National Priorities List
RCRA – Resource Conservation and Recovery Act
SEMS – Superfund Enterprise Management System
TSD – treatment, storage, or disposal
VCP – Voluntary Cleanup Program

### 5.1.1 Subject Property

The Subject Property was identified in several of the databases. The listings were associated with subareas of the larger Subject Property and included the findings:

- California Environmental Reporting System (CERS) indicating IR Site 1 and IR Site 3 as solid waste disposal sites, several USTs at the Site
- Solid Waste Information System (SWIS SWF/LF) indicating the presence of an active, closed, or inactive solid waste disposal facility or landfill at IR Site 1 and IR Site 3.
- Resource Conservation and Recovery Act (RCRA) Large Quantity Generators (RCRA-LQG) and RCRA Small Quantity Generator (RCRA-SQG) identifying the NFD Point Molate as a generator of hazardous wastes.
- State Response Sites (RESPONSE) and ENVIROSTOR identifying NFD Point Molate as a confirmed release site by the Department of Toxic Substances Control (DTSC). The status is listed as “Refer to RWQCB” indicating regulatory oversight is under the RWQCB and not DTSC.
- Federal Facility Site Information Listing (CERCLIS) identifying the Naval Supply Center (i.e., NFD Point Molate) as a hazardous waste site.
- Underground Storage Tanks (SWEEPS UST, FID UST, HIST UST) for leaking USTs.
- San Francisco Regional Water Quality Control Board Enforcement action (ENF) and Cleanup Program Site (CPS) formerly known as the Spills, Leaks, Investigations and Cleanup (SLIC) sites for the Packaged Groundwater Treatment System.
- Hazardous Waste Manifest Listings (HAZNET) for hazardous waste manifests generated during remedial activities at IR Site 3.
- Formerly Used Defense Sites (FUDS) indicating former use of the Site by the Navy.

- National Pollutant Discharge Elimination System (NPDES) for the packaged groundwater treatment system.
- Military Priv Sites indicating former military use of the Site by the Navy.
- California Integrated Water Quality System (CIWQS) for the packaged groundwater treatment system and IR Site 3.

More detailed information pertaining to these listings is discussed in Section 6.

### 5.1.2 Nearby Listed Properties

The following properties were listed in the EDR report within applicable search distances.

- Pacific Molasses Company
- TLHUS Inc.
- Port of Richmond Terminal 4.
- Dutra Materials
- PakTank Richmond Inc.
- Starlight Marine
- Pacific Bell
- CalTrans Richmond Toll Plaza
- Point San Pablo Yacht
- Chevron Richmond Refinery

Upon review of information contained in the report, several of the listings identified above appear to be related to the same historical offsite operations. The following provides a summary of the information contained in the EDR Report.

**TLHUS Inc./Pacific Molasses Company/Port of Richmond Terminal 4/ PakTank Richmond Inc.**
*Approximate Distance from the Property:* approximately 4,000 feet northwest of the Subject Property
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* The Port of Richmond Terminal 4 consists of two historical leaseholds adjacent to one another: the Vopak North America Inc. (Vopak) leasehold and the United Molasses Company leasehold. The Vopak leasehold consisted of approximately 9.5 acres of land used for a bulk oil storage facility and included a large number of ASTs, USTs, and associated structures. The United Molasses Company leasehold consisted of approximately 6 acres of land hydraulically downgradient and southwest of the Vopak leasehold used for bulk storage, handling, and distribution of agricultural products in ASTs, USTs, and related structures.

Vopak and its predecessors, which include Dorward & Sons and Paktak California, began operating a bulk oil storage facility on its leasehold at the Site in 1917. Vopak and its predecessors stored products including, but not limited to, lubricating oils, gasoline, diesel fuel, neutral oil 100 and 500, Grade 4 oil, distillate oil, No. 5 fuel oil, No. 6 fuel oil, jet fuel, polybutane, toluene, xylene, linear alkylbenzenes, alcohols, animal and vegetable oils, liquid fertilizers, and phosphoric acids. The

products were contained in approximately 100 ASTs with a capacity ranging from 1,000 to 3.9 million gallons, with a total capacity of 21,000,000 gallons. Vopak ceased operations in 2000, and demolished and removed the tanks by February 2001. An undetermined number of USTs were also located at the property. Two former pipelines transported alkenes, propylene tetramer, and polymers from the neighboring Chevron Refinery to the Vopak facility. The pipelines were constructed, owned, and operated by Chevron.

United Molasses Company and its predecessors, PM Ag and Pacific Molasses Company, began operating on their Site leasehold in 1936. PM Ag and Pacific Molasses Company were engaged in aboveground bulk storage, handling, and distribution of commercial agricultural products. Products included coconut oil, lignin liquor, linseed oil, cane molasses, blackstrap molasses, beet molasses, and tallow. Two boilers were used to heat and improve the transfer of products. The boilers were fired by diesel or light heating oil stored in two USTs (one was partially buried), one of unknown size and one with a capacity of approximately 8,000 gallons. United Molasses Company removed the two USTs and eight ASTs formerly containing agricultural products in the 1980s and 1990s, and ceased facility operations in 1993.

Remedial activities consisting of soil excavation were conducted in 2014 to remove petroleum-impacted soils within the groundwater smear zone (Stantec 2014). The database listings appear to be related to the former operations at the property, the tank closure activities, the remediation activities, and ongoing verification monitoring. The project status is currently identified by the RWQCB as Open – Verification Monitoring. Based on the distance from the Subject Property, this site is not considered to pose a significant risk to the Subject Property.

**Dutra Materials**
*Approximate Distance from the Property:* approximately 1,000 feet southeast of the Subject Property
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* Dutra Materials is an active quarry that operates southeast of the Subject Property and is identified in the US MINES database. No other information regarding this listing was available in the database report. Based on the distance from the Subject Property, this site is not considered to pose a significant risk to the Subject Property.

**Starlight Marine**
**2101 Western Drive**
*Approximate Distance from the Property:* 152 feet southeast of the Subject Property (according to EDR; however, the address is not mappable in GoogleEarth).
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* Starlight Marine is identified EDR's Historical Auto Stations database. No other information regarding this listing is contained in the database report. Based on the lack of information regarding a release for this listing, this site is not considered to pose a significant risk to the Subject Property.

**Pacific Bell**
*Approximate Distance from the Property:* approximately 350 feet west of the Subject Property
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* Pacific Bell is identified in the RCRA-SQG database.

**CalTrans Richmond Toll Plaza**
*Approximate Distance from the Property:* approximately 3,800 feet southeast of the Subject Property
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* The CalTrans Richmond Toll Plaza is identified as a voluntary cleanup agreement (VCA) site in the ENVIROSTOR database. The DTSC and Caltrans entered into a VCA (Docket No. HSA 97198-024) in September 1998 to provide consultative services for contaminated soil management activities associated with seismic retrofit activities at the Benicia-Martinez, San Francisco-Oakland Bay, and Richmond-San Rafael Bridges. Consultative services were completed for the Benicia-Martinez Bridge retrofit activities on July 1999; for the San Francisco-Bay Bridge on June 2002; and for the Richmond-San Rafael Bridge on February 2002. The VCA was terminated in 2005. Based on the distance from the Subject Property and the regulatory status, this site is not considered to pose a significant risk to the Subject Property.

**Point San Pablo Yacht Harbor**
*Approximate Distance from the Property:* approximately 2,500 feet north of the Subject Property
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* The Point San Pablo Yacht Harbor is a small marina located north of the Site. This property appears in the database listings a leaking UST (LUST) case. The case status is identified as “Case Closed” as of November 1999. Based on the distance from the Subject Property and the regulatory status, this site is not considered to pose a significant risk to the Subject Property.

**Chevron Richmond Refinery**
*Approximate Distance from the Property:* adjacent to the eastern Subject Property boundary on the other side of San Pablo Ridge
*Assumed Groundwater Gradient:* Crossgradient from the Site
*Regulatory Data Summary:* The Chevron Richmond Refinery is an active oil refinery and appears in a number of databases within the specified search distances. Listings pertaining to RCRA permits and air permitting were identified in the databases. Documented releases have occurred, resulting in soil and groundwater impacts, and remedial activities have been implemented. Several violations were identified in the database report related to compliance with the Aboveground Petroleum Storage Act. Based on the location of the refinery on the other side of the ridge providing a groundwater and surface water divide, this site is not considered to pose a significant risk to the Subject Property.

### 5.1.3 Orphan Site List

Terraphase also reviewed the “unmappable” (also referred to as “orphan”) listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence but are potentially in the general area of the Subject Property

based on the partial street address, city, or zip code. Eight orphan site listings were identified. Based on the descriptions, five of the listings appear to be associated with the Subject Property and include the Point Molate Groundwater Monitoring program (two listings), the Point Molate UST MG-1 (two listings), and the Packaged Groundwater Treatment Plant (one listing). These listings are encompassed in our overall review of the Site. The remaining three listings are not considered to have an impact on the Subject Property based on the description of location.

## 5.2 Vapor Encroachment Screening

ASTM Standard E2600-15 Standard Guide for Vapor Encroachment Screening (VES) on Property Involved in Real Estate Transactions was used as guidance for conducting a VES for the Subject Site. The purpose of the screening is to determine whether a Vapor Encroachment Condition (VEC) exists from volatile contaminants that may migrate as vapors onto a property as a result of contaminated soil and groundwater on or near the Subject Site. Given that volatile organic compound (VOC) concentrations have been detected in soil gas and groundwater samples collected from the Site, a VEC exists for the Site, particularly in the vicinity of the northwest corner of former Drum Lot 2 area within IR Site 4. Additionally, the RWQCB is requiring a post-remediation investigation of soil gas at IR Site 3 in order to release the land use restriction for IR Site 3. Pre-remediation samples were collected and a report tilted *Data Summary for Soil Gas Survey at Former Naval Depot Point Molate, Richmond, California,* dated August 12, 2012, indicated that potential soil-gas concentrations of contaminants in excess of regulatory thresholds are not present (Terraphase 2012b) and it is anticipated that the post-remediation investigation will confirm these results (Terraphase 2012b).

## 5.3 Additional Environmental Record Sources

In addition to EDR record review, Terraphase contacted additional local and federal environmental record sources, as described in the following subsections.

### 5.3.1 County Regulatory Records – Contra Costa County Environmental Health Services Department

Contra Costa County Environmental Health Services Department (CCCEHSD) is the Certified Unified Program Agency that coordinates and enforces numerous local, state, and federal hazardous materials management and environmental protection programs in Contra Costa County. Information pertaining to the Subject Property in CCEHSD's files was reviewed. A summary of the information is provided below:

- Several reports regarding tank tightness testing for the USTs at the Site;
- Correspondence regarding the discovery of soil contamination related to releases from pipelines and valve boxes;
- Permits to operate for the USTs at the Site;
- Permits for removal of two 1,000-gallon diesel USTs dated May 2000 and permits for the removal of Tanks B and C dated 2004;
- Documents related to the structural closure in-place and monitoring of the large USTs.

### 5.3.2 State Regulatory Records

#### 5.3.2.1 *Department of Toxic Substances Control*

Terraphase reviewed the DTSC's EnviroStor database,[2] which houses information on permits and corrective action at hazardous waste facilities, as well as site cleanup projects, for relevant records related to the Subject Property and/or adjoining properties. The Subject Property was identified in the database. According to information in the Envirostor database, the Site was referred to the RWQCB and is a historical site.

#### 5.3.2.2 *Regional Water Quality Control Board*

Terraphase reviewed the GeoTracker database,[3] the RWQCB's data management system for sites that impact groundwater or have the potential to impact groundwater. Several listings associated with the Subject Property were identified in the database search results. The following listings associated with the Subject Property were identified in the GeoTracker database:

- Groundwater Monitoring and NPDES Packaged Treatment System
- Richmond Point Molate Naval Supply Center IR Site 4 – Drum Lot 1 and N&S Shoreline
- Richmond Point Molate Naval Supply Center IR Site 4 – Drum Lot 2 and Building 87
- Richmond Point Molate Naval Supply Center – IR Site 1
- Richmond Point Molate Naval Supply Center – IR Site 3
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#02
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#03
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#05
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#06
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#08
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#11
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#12
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#13
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#14
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#15
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#18
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#19
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#2
- Richmond Point Molate Naval Supply Center NFD Point Molate UST-B
- Richmond Point Molate Naval Supply Center NFD Point Molate UST-C
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#1
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#16
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#17
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#20
- Richmond Point Molate Naval Supply Center NFD Point Molate UST#7

[2] www.envirostor.dtsc.ca.gov/public
[3] http://geotracker.swrcb.ca.gov/

- Richmond Point Molate Naval Supply Center NFD Point Molate UST#9
- Richmond Point Molate Naval Supply Center Site 2 – Sandblast Areas
- Richmond Point Molate Naval Supply Center UST #10
- Richmond Point Molate Naval Supply Center UST #4

Additional discussion regarding these areas is included in Section 6.

### 5.3.3 Federal Regulatory Records

Review of the United States Environmental Protection Agency (EPA) Envirofacts website[4] revealed that the Subject Property was identified in the SEMS and RCRA databases. Adjoining properties listed in the searched databases included the Richmond Chevron Refinery and Dutra Materials.

[4] http://www.epa.gov/envirofw/

# 6.0 PRIOR ASSESSMENTS

An extensive number of prior assessments have been completed for the Subject Property. Given the number of historical records available, it was impractical to complete an exhaustive review of the available information, as defined in ASTM E1527-13. Therefore, Terraphase limited their review to the documents included in the summaries below.

## 6.1 Historical Site Uses

As part of the BRAC process, an Environmental Baseline Survey (EBS) was prepared for the Site in 1996 (Morrison Knudsen Corporation [MK] and PRC Environmental Management Inc. [PRC] 1996). Based on information provided in the EBS, the Site was first used by early Native Americans (Ohlone). Radiocarbon dating of material from archaeological sites indicates that prehistoric occupation of the area may have begun as early as 8,000 BC. The arrival of Spanish settlers in the late 18$^{th}$ century resulted in the decimation of the Native American populations in the area. During the late 18$^{th}$ and 19$^{th}$ centuries, the Site was part of a larger (17,983-acre) Mexican land grant known as Rancho San Pablo. In addition, a Chinese shrimp village was present at what is now Point Molate Beach Park from the late 1860s to approximately 1912. The Chinese shrimp fishermen trawled the waters of San Francisco Bay for native shrimp to sell in local markets. Increasing pollution and legislation of the Bay restricting net fishing led to the abandonment of the village between 1912 and 1915.

In 1894, the Superior Court of California partitioned Rancho San Pablo into 285 parcels among numerous litigants. Anthony Maraschi, Richard O'Neill, and E.S. Tewksbury were among those who received title to the land that included the Subject Property.

In 1906, the California Wine Association purchased 48 acres of the Site and constructed a winery known as Winehaven, described as the largest winery in the world in 1908. The Winehaven complex of buildings was constructed between 1907 and 1919 and included a winery, distillery, bottling facilities, housing for the workers, a hotel, and an 1,800-foot wharf. The winery used local transportation, including the ships on San Francisco Bay and the Belt Line Railroad which provided direct access from Winehaven to the larger railroad systems. Wine production ceased shortly after the Volstead Act in 1919.

The Site was subsequently leased to the Healy-Tibbets Company for quarrying, which took place northeast of the current quarry. Other rock quarry operations included those of the San Pablo Quarries Company, who purchased the property south of Point Molate where the Chinese shrimp fishing village was once located. The quarry on the promontory of Point Molate was constructed between 1924 and 1938. The Winehaven property was acquired by the Santa Cruz Oil Company in October 1941 with the intention of warehousing, but the Navy acquired the land only eight months later.

Point Molate was acquired by the Navy by an order for immediate possession on June 25, 1942, for fuel storage and transfer. Most of the existing buildings were put to immediate use and the fuel pier was constructed. NFD Point Molate was commissioned on April 12, 1943. Four steel USTs (Tanks 21 through 24) were built in 1942 on land leased by the Navy from Chevron. In 1943, 22 concrete USTs were built at the Subject Property (Tanks 1 through 20, B and C). Five welded steel tanks were added in 1951

(Tanks DFP 1 through 5), and four aboveground welded steel tanks in later years (two in 1956, two in 1979: Tanks D, E, F, and G). A variety of bulk fuels were stored in the tanks throughout the Navy's operations. Table 3-1, excerpted from the EBS and included as Appendix J, summarizes the types of fuels stored in the tanks at the Site. Fuel storage and transfer activities ceased at the Site in 1995. The tanks are discussed further in Section 6.3.

## 6.2 Installation Restoration Program

Beginning in 1987, the Navy initiated a series of environmental characterization activities, including a preliminary assessment at NFD Point Molate. Follow-up site inspections and investigations were conducted in the early 1990s, resulting in the identification of several areas that were included in the Installation Restoration (IR) Program. The areas, referred to as IR Sites, are described below and shown on Figure 3.

### 6.2.1 IR Site 1

IR Site 1 is the Waste Disposal Area, a closed landfill that was used by the Navy. Debris known to be present in the landfill includes railroad ties and rails, wood, demolition debris from burned buildings, concrete, stumps, logs, pilings, small-diameter pipe, metal strapping, paper, creosote-treated wood, burned wood, and an empty, rusted 55-gallon drum (TtEMI 2000a). Some oily waste, possibly petroleum sludge tank bottoms or petroleum-contaminated soil from excavated valve boxes, was also detected. The former landfill is approximately 1,000 feet long, as much as 50 feet deep, and 50 to 200 feet wide (TtEMI 2003a). In addition to waste, historical fuel leaks and spills from the UST system at NFD Point Molate have affected soil and groundwater within and downgradient of IR Site 1. Contaminants of concern include total petroleum hydrocarbons (TPHs) and polycyclic aromatic hydrocarbons (PAHs).

The RWQCB issued enforcement documents in the form of Site Cleanup Requirements Order Number 97-124 and Time Schedule Order Number 97-125 for IR Site 1 in 1997. These orders required the completion of semiannual groundwater monitoring reports, an engineering evaluation/cost analysis (EE/CA) for IR Site 1, a Remedial Investigation (RI) work plan and report, and a contingency plan to prevent discharge of landfill fuel contaminants to San Francisco Bay. In 2000, the Navy concluded that a non-time-critical removal action was appropriate for the landfill at IR Site 1 and possible response actions were evaluated in an EE/CA. The Navy provided the EE/CA to the RWQCB, the City of Richmond, and the community for review and comment. In September 2000, the Navy finalized the EE/CA, which reflected changes made by the Navy in response to comments it received from the RWQCB, the City of Richmond, and the community (TtEMI 2000b). The RWQCB concurred with the Final EE/CA in a letter dated October 16, 2000. The EE/CA recommended that the landfill be capped with a soil cover with drainage controls, methane venting, groundwater and methane monitoring, and a maintenance program.

The Navy selected the containment action recommended in the EE/CA and documented that decision in a final Action Memorandum signed by the Navy in June 2001 (TtEMI 2001a). The soil cover for the Site 1 landfill was completed in March 2002 in accordance with the Final Cover Design (TtEMI 2001a, Foster Wheeler Environmental Corporation [FWENC] 2002). The soil cover consists of a foundation layer placed and graded to provide a minimum of 2 feet of foundation soil over the waste material and to provide a

competent surface for the final soil cover. Imported, clean material was used to construct a soil cover over the entire surface of the foundation layer that was at least 24 inches thick. A 6-inch-thick layer of un-compacted topsoil was placed over the soil cover and was seeded (FWENC 2002). The soil cover was graded to prevent water from ponding on the surface (FWENC 2002). The slope of the cover and a terrace ditch were designed to drain surface water from the middle of the soil cover to the grassed waterways to the east and west of the landfill. The grassed waterways and the steep southern slope were covered in composite turf reinforced matting, and seeded to prevent erosion.

The ravine side slopes and the landfill surface drain to concrete ditches that channel the water downgradient toward the low-lying areas. Tail water basins at the bottom of the concrete ditches reduce the velocity of the water before it flows into the surrounding areas. A seep collection drain was constructed at the toe of IR Site 1, in accordance with the Final Cover Design (TtEMI 2001a). The trench was extended 10 feet west of the original design location to intercept additional seeps encountered during construction (FWENC 2002). The seep collection drain empties into the area downgradient of the landfill.

In December 2002, the Navy installed an oil-water separator (OWS) at the seep collection drain because of the presence of fuel product in seepage water at the toe of the landfill (Sullivan 2004). The purpose of the OWS was to separate free oil from the effluent before discharge. The existing OWS was incorporated into the final remedial action for IR Site 1.

The Navy documented the groundwater and methane monitoring and the landfill maintenance components of the removal action in the *Final Postclosure Maintenance and Monitoring Plan, Site 1 Final Cover* (IR Site 1 PMMP) that was finalized on August 30, 2002 (TtEMI 2002c). The IR Site 1 PMMP describes the long-term maintenance and monitoring program for IR Site 1, in accordance with relevant requirements of Title 27 of the California Code of Regulations (CCR). The IR Site 1 PMMP also contains as-built drawings of the landfill cover. IR Site 1 was closed subject to conditions described in the IR Site 1 Record of Decision (ROD; Navy 2005) that includes five-year review of the closure.

The City of Richmond is currently responsible for maintaining the final cover placed on the landfill. The water treatment system continues to operate at IR Site 1 to remove low levels of petroleum hydrocarbons contained in seepage collected from the landfill toe. Treatment activities are regularly reviewed for effectiveness and appropriateness of operations. These activities are conducted in response to Task 11 of RWQCB Order R2-2011-0087. Annual reports are currently submitted to the RWQCB and the CCCEHSD summarizing the monthly, quarterly, and annual operation, maintenance, and monitoring activities at IR Site 1 (Terraphase 2019b).

### *IR Site 1 Conclusions*

IR Site 1 is identified as a Controlled REC (CREC) for the Subject Property for the following reasons:

- A remedial action was completed and a ROD prepared for the Site.
- Contamination has been left in place with land-use restrictions.
- There are ongoing monitoring and maintenance activities that will be required for the landfill in perpetuity.

### 6.2.2 IR Site 2

Sandblasting was conducted at NFD Point Molate to prepare metal surfaces for painting. The leftover grit was primarily composed of silica particles, with trace amounts of metals. IR Site 2 is made up of five localized areas dispersed across the Site (Areas 2A, 2B, 2C, 2D, and 2E) of suspected historical sandblasting activities or sandblast grit disposal (TtEMI 1998). Visual inspections of the areas found grit at only three of the areas (2A, 2D, and 2E; TtEMI 1998), and a human health risk-based screening evaluation confirmed that metals concentrations required further action to allow for unrestricted use (TtEMI 2003a). In 1997 and 1998, the Navy excavated soil from three areas (2A, 2D, and 2E) at IR Site 2 and disposed of the soil off-site at an appropriate disposal facility as part of a removal action (TtEMI 2003a). Confirmation soil samples were collected from the excavations (TtEMI 1998).

A risk assessment completed after the removal action indicated that no unacceptable risks to human health and the environment were identified at IR Site 2 following the soil removal action (TtEMI 2003a). A ROD documenting that no further action (NFA) was necessary at IR Site 2 was signed by the Navy on August 31, 2000, and by the RWQCB on September 5, 2000. In July 2000, the RWQCB signed a Declaration of NFA at Site 2 (RWQCB 2000).

#### *IR Site 2 Conclusions*

Terraphase compared the confirmation sampling results from the *Sandblast Grid Areas (Site 2) Removal Action Final Project Completion Report* (TtEMI 1998) to the current Environmental Screening Levels (ESLs; RWQCB 2019a). The results are summarized in Table 1. As indicated on the table, samples collected in all of the areas exceed the current Tier 1 ESLs for various compounds (cadmium, lead, nickel and zinc). For cadmium, lead, nickel, and zinc, the Tier 1 ESL is based on terrestrial habitat and associated concerns for ecological receptors; given the disturbed nature of the IR Site 2 areas, ecological receptors are not expected to be a concern within IR Site 2. Areas 2A and 2B exceed the residential ESL for lead and the construction worker ESL for nickel. Although a ROD has been prepared and approved for the Site, the results of confirmation samples collected from the sandblast grit areas in IR Site 2 Area 2A and Area 2B exceed current regulatory screening levels for residential site re-use. Therefore, IR Site 2 Area 2A and 2B are identified as a REC for the Subject Property. IR Site 2 Areas 2C, 2D, and 2E are identified as HRECs.

### 6.2.3 IR Site 3

IR Site 3 is the Treatment Ponds Area. IR Site 3 is located near the center of NFD Point Molate on a flat, filled area adjacent to San Francisco Bay. Previous operations at IR Site 3 included a sump pond that held fuel and other liquid wastes, three former ASTs, an industrial waste disposal area, and fuel transfer and reclamation operations. At the time the Navy began operations at the facility in 1942, IR Site 3 was a single pond formed by diking off a small embayment just west of the historic Winehaven Building. The pond was approximately 10 to 11 acres in surface area, used to capture oily waste from facility operations. In 1973, the pond was reconfigured to three smaller ponds with its use continuing as a site for treatment of oily wastewater from the facility. In 1991, oil was observed in San Francisco Bay adjacent to these ponds and was determined to be coming from the waste oil and sludge deposited within the ponds.

In 1995, the Navy installed a subsurface extraction trench along the shoreline to capture oil-contaminated groundwater as an emergency and interim remedy (Terraphase 2014). The system included a packaged groundwater treatment plant (PGWTP) which treated groundwater extracted from the extraction trench before it was discharged (under NPDES permit CAG912002 – RWQCB 2006) to the Bay. In 2003, the ponds were removed from service and backfilled after removal of contaminated material to a depth of 10 feet bgs (Terraphase 2014). During this period, the groundwater extraction treatment system continued to operate.

Additional remedial activities were conducted on IR Site 3 in 2014 and 2015. As summarized in the Remedial Action Complete Report (Terraphase 2018), the remedial work completed at IR Site 3 included:

- excavation and offsite disposal of Class II petroleum-impacted soil and Class I (California-regulated non-RCRA) hazardous wastes;
- demolition of existing above- and below-ground facilities, including the extraction trench and the PGWTP;
- installation of a contingency groundwater extraction trench consisting of clean gravel wrapped with a non-woven geotextile to a depth of 2 feet into the underlying Younger Bay Mud and seven groundwater extraction/monitoring wells; and
- backfilling of the excavated areas with clean material.

Approximately 100,000 cubic yards of contaminated soils were removed and disposed of offsite (Terraphase 2018). The excavation extended in parts of IR Site 3 to depths up to 20 feet bgs. Following the completion of construction activities, IR Site 3 was revegetated with native grasses (Terraphase 2018). According to the Remedial Action Completion Report (Terraphase 2018), remedial action objectives (RAOs) were generally met.

- RAO-1 was to prevent the exposure of human and ecological receptors under reasonably foreseeable future site uses to chemical contaminants at concentrations that may cause unacceptable risk to site users and ecological receptors. The soil data indicate that the RAOs for the applicable exposure scenario described in the approved Feasibility Study/Remedial Action Plan (FSRAP; Terraphase 2014) were met. The remedial activities were designed considering exposure Scenario 2 as follows: “exposure scenario 2 - protection of human health for future residents of multi-family housing, commercial/ industrial workers and construction workers with IR Site 3 redeveloped as mixed use with residents living in multi-family housing with no private backyards.” To fully satisfy the remedial action objective, a revision of the existing LUC for IR Site 3 will be completed, and IR Site 3 will be added as an addendum to the existing RWQC-approved SGWMP (Terraphase 2012) because a limited number of soil samples exceeded the cleanup goals and were left in place due to construction constraints. The LUC will include the following prohibited uses and restrictions per the RWQCB approved FSRAP: “Prohibited Uses. The Property shall not be used for any of the following purposes: (a) A single-family, unattached residence. (b) A hospital for humans. (c) A public or private school for persons under 21 years of age. (d) Private unpaved backyards (e) First floor residential development, unless soil vapor results (post-remediation activities) indicate no

risk to human health or nuisance. Alternatively, final residential development design includes soil vapor mitigation measures acceptable to the RWQCB. All other residential uses are permitted. Restrictions. The following shall be restricted at the Property: (a) Raising of food (livestock, food crops). (b) Groundwater use." (Terraphase 2014).

- RAO-2 was for protection of beneficial uses of groundwater at the Site (replenishment of freshwater to San Francisco Bay). This RAO will be evaluated via groundwater samples from the contingency trench installed at IR site 3 and newly proposed monitoring wells. Additional recommendations regarding this RAO will be presented with the periodic groundwater monitoring reports.
- RAO-3 was to remove soil contamination that has the potential to release mobile free product petroleum to San Francisco Bay. The Remedial Action Completion Report concluded that mobile free product has been removed from IR Site 3.
- RAO-4 was to substantially comply with CCR Title 27 for closure of waste management units. The Remedial Action Completion Report concluded that soil contamination meeting the RWQCB approved clean-up goals has been removed from IR Site 3 and IR Site 3 meets Title 27 requirements.

The RWQCB issued a letter generally concurring with the Remedial Action Completion Report regarding the soil remediation activities (RWQCB 2019b), although official regulatory approval has not yet been granted. The RWQCB has also issued letters stating that additional work is required to evaluate the potential risk to ecological receptors in San Francisco Bay from hydrocarbon oxidation products (HOPs) that remain in IR Site 3 groundwater (RWQCB 2019c, RWQCB 2019d). Based on correspondence comments on the Remedial Action Completion Report, additional groundwater assessment would not have impacts on redevelopment of IR Site 3 as long as the contingency groundwater trench is not affected.

#### *IR Site 3 Conclusions*

IR Site 3 is identified as a REC for the Subject Property because additional activities (revision of the LUC and SGWMP and continued groundwater monitoring) are still required to be protective of human health and the environment.

### 6.2.4 IR Site 4

IR Site 4 includes Drum Lot 1, Drum Lot 2, and Building 87. IR Site 4 historically included the North Shoreline and South Shoreline. The initial shoreline investigation was conducted in 1994 and found TPH, benzene, toluene, ethylbenzene, and xylenes (collectively BTEX), and VOCs in groundwater and TPH, PAHs, and BTEX in soil. Based on the results of the investigation, a removal action was implemented, which included the removal of the underground fuel pipelines that traverse this area and the installation of an extension to the IR Site 3 containment wall into IR Site 4. Following numerous shoreline sampling events, the Navy requested concurrence from RWQCB that the North and South Shoreline areas are appropriately managed under the basewide petroleum corrective action plan (CAP) because concerns within these areas are petroleum-related. RWQCB concurred with the Navy's request to revise the IR Site 4 boundary in a letter dated November 25, 2002 (TtEMI 2003a).

Drum Lot 1 is located on the central shoreline of NFD Point Molate. The drum lot is a paved area near the fuel pier, just south of the containment wall/extraction trench in IR Site 3. The lot was used to store fuel drums filled onsite for transport offsite. An inactive, aboveground, primary fuel pumping station and a drum filling plant (Building 89) are also present within the drum lot. As part of the facility's fuel distribution system, underground pipelines were located between the fuel pier to the north and south sides of the facility and were removed during the basewide pipeline removals (TtEMI 2001c). The Navy recommended NFA for soil in Drum Lot 1 based on a finding of no significant potential human health risk relative to future recreational users, future park maintenance workers, and hypothetical residential scenarios and no ecological risk (TtEMI 2003b).

Drum Lot 2 is a paved area located in the southern half of NFD Point Molate, east of Main Road (also known as Western Drive). The lot was used to store fuel drums filled onsite for transport offsite. At one time, the lot was used to store and maintain rail cars that were used by the Pacific Locomotive Association for recreational purposes (PRC and MK 1996). Sandblasting was conducted in the northwest corner of Drum Lot 2. The sandblasting areas were addressed as IR Site 2, which was closed out with a no-action ROD in 2000 (TtEMI 2003a).

Building 87 is located in EBS Parcel 30 immediately to the west of Drum Lot 2. Historically, this building was used as an industrial supply warehouse and equipment repair, locomotive maintenance, and training facility (TtEMI 2003a). The building is a one-story corrugated steel structure, built on a concrete slab and used by the Navy Disease Vector and Ecology Control Center (DVECC). DVECC's use reportedly consisted of pesticide storage and classroom staff training (TtEMI 2003a). An area at the southwestern corner of Building 87 was identified as having been used to rinse pesticide equipment (TtEMI 2002d).

TPH, VOCs, semi-volatile organic compounds (SVOCs; including PAHs) and pesticides were detected in soil and groundwater near Building 87 in the late 1990s through 2000. Risks to human health and the environment were identified for surface soils at the Building 87 rinse area (TtEMI 2002d). In 2001, approximately 200 tons of pesticide-containing soil was excavated and disposed of, as well as the removal of the DVECC wastewater UST (discussed in greater detail in Section 6.3.1.4). Eight confirmation samples were collected in June 2001 at the Building 87 rinse area excavation. The results of the confirmation soil samples plus the results of the soil samples that were collected during previous investigations that were not removed as a result of the excavation were used to complete a human and ecological risk assessment (TtEMI 2002e). The Human Health Risk Assessment (HHRA) for Building 87 evaluated the following exposure scenarios: current industrial worker exposure to surface soils, future recreational user exposure to surface soils, and future construction worker exposure to subsurface soils and groundwater. The total non-cancer hazard index (HI) was less than 1 for all exposure scenarios. The total cancer risk was less than $1x10^{-6}$ for the current industrial worker and future recreational user to surface soil. The cancer risk was calculated as $3x10^{-6}$ for the future construction worker exposure to subsurface soil. Although the calculated cancer risk was greater than $1x10^{-6}$, the result was within EPA's risk management range of $1x10^{-6}$ to $1x10^{-4}$. Based on the results of the risk assessment, NFA was recommended by the Navy for the soil at Drum Lot 2 and Building 87. However, the Navy recommended additional groundwater delineation to better delineate a trichloroethene (TCE) plume located in the northwestern portion of Drum Lot 2. The RWQCB reportedly concurred with these findings in letters dated December 3, 2002, and March 25, 2003 (Geomatrix 2008).

Subsequent groundwater sampling conducted at Drum Lot 2 identified a plume of VOC-impacted groundwater centered on monitoring well numbers MW29-01 and MW30-08. Additional groundwater and soil-gas investigations were conducted in Drum Lot 2 in 2012 (Terraphase 2013a). Terraphase conducted a phased investigation of soil, soil vapor, and groundwater in 2012, prior to the implementation of an Interim Remedial Action at IR Site 4. The results of the investigations were summarized as follows (Terraphase 2015):

- A soil source of VOC contamination in the vadose zone was not identified, and it appears unlikely that the soil is contributing to groundwater contamination by leaching.
- Soil-gas VOC concentrations were relatively low and not indicative of the presence of a continuing soil source.
- The lateral and vertical distribution of VOCs in soil, soil vapor, and groundwater at IR Site 4 was adequately characterized.

Terraphase modified the extent of the originally proposed groundwater remediation based on the investigation results. The Interim Remedial Measure (IRM) design was modified so that the treatment area would include the full extent of groundwater with TCE concentrations exceeding the cleanup goal of 81 micrograms per liter (µg/L). Groundwater data collected prior to injections provided baseline conditions used to evaluate the effectiveness of treatment. The IRM consisted of the injection of emulsified oil substrate to promote enhanced reductive dechlorination of TCE for Drum Lot 2 and was implemented in November 2012 through January 2013 (Terraphase 2013a). After eight quarters of performance monitoring following injections, reductions in TCE concentrations detected in groundwater ranged from 67% (well MW10-11) to 99.9% (well MW31-07) and the average decrease in TCE concentrations was 95.1%, relative to baseline conditions (Terraphase 2015).

In response to RWQCB Order R2-2001-0087, an HHRA Work Plan was prepared for Drum Lot 2 in 2016 to identify and evaluate the available data for Drum Lot 2 and the Building 87 areas, and identify data gaps that would need to be addressed prior to completing an HHRA evaluating a future unrestricted residential land use scenario (Terraphase 2016b). RWQCB approval of the HHRA Work Plan is still pending.

#### *IR Site 4 Conclusions*

IR Site 4 is identified as a REC for the Subject Property because additional activities are still required to be protective of human health and the environment.

## 6.3 Storage Tanks

A number of USTs and ASTs are or have historically been located at the Site. The history and status of these tanks is summarized below and in Table 2.

### 6.3.1 Large Underground Storage Tanks, Fuel Pipelines, and Compliance Program

The NFD Point Molate fuel system included:

- 20 large hillside fuel USTs (identified as Tanks 1 through 20), each with a capacity of 2.1 million gallons,
- four additional hillside fuel UST (identified as Tanks 21 through 24) with a capacity of approximately 1.0 million gallons each (located on land leased by the Navy from Chevron northwest of the Subject Property), and
- two smaller tanks with capacities of 580,000 gallons (Tank B) and 100,800 gallons (Tank C).

Because Tanks 21 through 24 were located on property leased by the Navy from Chevron and not on the Subject Property, they are not discussed further in this Phase I ESA. Between 1943 and 1975, bunker fuel, marine diesel fuel, and JP-5 were stored at the former NFD Point Molate. Between 1975 and 1995, the northern portion of the facility (Tanks 1, 2, and 5 through 13) was used to store and transfer diesel fuel. The southern portion of the facility (Tanks 3, 4 and 14 through 19) was used to store and transfer JP-5. Tank 20 stored bunker fuel from 1943 to 1975, and stored naval ballast, sediment, and wastewater from 1975 to 1995 (Terraphase 2019a). The fuel system was composed of the USTs and 38 valve boxes that were connected by a network of approximately 9 miles of underground and aboveground pipeline (TtEMI 2003a). Figure 5 is a site plan showing the locations of the USTs and appurtenances at the former NFD Point Molate.[5]

In 1986, as part of a spill prevention control and countermeasure program, the Navy installed an oil recovery system (ORS; Terraphase 2013b). At each UST, the existing perimeter drain around the UST bottom was modified to drain to the valve pit (VP) for each tank. Each VP was modified with an ORS drainpipe. The pipe exited the VP and connected to a valve box (VB) or to hydrants located downhill from each UST. Main ORS pipelines were installed to direct drainage from the VBs to various low points at the facility. A system of sumps, pumps, valves, and controls conveyed fluids to a storage pond and fuel reclamation system located near Building 1 on the Site.

In 2005, the Navy structurally closed in-place (without filling with concrete or other material) Tanks 1 through 20, due to the large size and the good condition of the USTs (Terraphase 2019a). Tanks B and C

[5] Tanks 1 through 20 are cylindrical structures built of concrete walls, floors, and roofs, supported with 52 internal concrete columns (TtEMI 2003a). Approximate dimensions of Tanks 1 through 20 are as follows (Terraphase 2019a):

- Each tank has an interior clear diameter of 135 feet, 4 inches.
- Each tank has an interior clear height of 20 feet.
- Each tank has roof and floor slabs 1 foot, 4 inches and 1 foot, 6 inches thick, respectively.
- Tank walls are 1 foot, 6 inches thick, up to 10 feet in height, and 1 foot, 3 inches thick above that.

Each UST was constructed with a perimeter drain surrounding the tank bottom. Original design drawings indicate that each drain consisted of open joint tiles placed in a gravel bed. Each drain was laid on a slope to fall approximately 12 inches from the upper (uphill side) UST perimeter to the lower (downhill side) perimeter. Water collected by these drains was to the oil recovery system (ORS; TtEMI 2002a). The purpose of the perimeter drains was to prevent infiltrating surface water from accumulating in the backfill outside of the UST walls.

were removed in 2004 due to their relatively smaller size, central location, and history of bunker fuel releases near Tank B (Alliance 2009; Terraphase 2019a).[6]

#### 6.3.1.1 *Previous Investigation and Removal Activities Related to USTs*

In 1990, a shallow soil investigation was conducted in the vicinity of the valve boxes, known pipeline leaks, and within known spill areas. Targeted analytes were total extractable petroleum hydrocarbons (TEPH) and BTEX. In addition, free product was discovered adjacent to USTs 3, 5, 6, 8, 12, 13, 15, 18, 19 and B during investigations conducted as part of the EBS investigations conducted in 1998 and 1999 (TtEMI 2001c).

As summarized in the *Underground Storage Tank Management Plan* (Terraphase 2013b), the Navy performed initial pipeline removal activities from 1998 to 2000, completing the following tasks:

- Modified the ORS to recover oily storm water; oily storm water was treated in the OWS system followed by sand filters, which were located adjacent to the groundwater treatment system.
- Installed plugs in the open ends of the UST perimeter drainpipe and the ORS pipe at each VP (TtEMI 2002a).
- Removed approximately 48,000 linear feet of fuel pipeline.
- Filled short sections of fuel pipes with grout where pipes crossed under main roads.
- Removed approximately 440 tons of non-friable asbestos-coasted fuel pipe and transite fuel pipe.
- Removed approximately 70 tons of friable asbestos-insulated steam lines.
- Demolished 29 VBs.
- Disposed of associated waste petroleum products, oily water, and petroleum-impacted soil.

The Navy conducted closure activities for the UST, pipeline, and VB systems between 2004 and 2005. The Navy completed the following tasks (ITSI 2005b):

- Cleaned all remaining USTs and associated pipelines.
- Removed valves and short pipe sections from VBs and VPs.
- Removed pipelines between VB-8 and VB-9A.
- Demolished aboveground structures including doghouses.

[6] The *Underground Storage Tank and Hillside Pipeline Closure Conceptual Design* (TtEMI 1999) was reviewed by the Hazardous Materials Programs office at the CCCEHSD , the City of Richmond, and the California RWQCB, San Francisco Bay Region. CCCEHSD, the agency overseeing structural closure of the USTs, officially approved the conceptual plan in a letter dated July 23, 1999.

- Demolished rectifiers (part of the pipeline cathodic protection system) after removing and disposing of the dielectric fluid.
- Removed USTs B and C.
- Demolished all remaining VBs; the concrete box at VB-9A was left in place to serve as a retaining wall.
- Installed permanent plugs in all pipe terminations (including the bottom perimeter drain) in the VPs at USTs 1 to 20.
- Demolished the top portion of VPs, then backfilled the VPs to grade.
- Installed a subsurface French drain around the perimeter of the top of USTs 1 to 20.
- Installed two surface outfalls for each French drain at USTs 1 to 20.
- Installed manhole extensions for access to USTs 1 to 20 (two per each UST – the third manhole at each UST was sealed with a steel plate).
- Graded the surface at USTs 1 to 20 to provide approximately a 4-foot-thick layer of cover and to provide shallow slopes for runoff.
- Performed site restoration, including installing topsoil, final grading, hydroseeding, and installation of erosion control measures.
- Disposed of associated wastes including oily water, petroleum-impacted soil, organic matter generated during clearing and grubbing, and demolition debris.
- Conducted removal of petroleum-impacted soil at several locations including seeps and former VB-2.
- Conducted multi-phase extraction at several hillside USTs to remove free petroleum product from subsurface soil.

Based on the activities conducted, the RWQCB approved closure with NFA for Tank 1 (RWQCB 2006), Tank 4 (RWQCB 2010), Tank 7 (RWQCB 2007b), Tank 9 (RWQCB 2007a), Tank 10 (RWQCB 2008a), Tank 11 (RWQCB 2008b), Tank 12 (RWQCB 2012b)[7], Tank 14 (RWQCB 2008c), Tank 16 (RWQCB 2007c), Tank 17 (RWQCB 2007d), and Tank 20 (RWQCB 2006). Copies of the environmental closure letters from RWQCB are included in Appendix K.

In 2010, the Navy also submitted requests for closure for Tanks 2, 6, B, and C (ChaduxTt 2010c), Tank 8 (ChaduxTt 2010d), Tank 13 (ChaduxTt 2010a), Tank 15 (ChaduxTt 2010e), Tank 18 (ChaduxTt 2010b), and Tank 19 (ChaduxTt 2010f); however as of the writing of this Phase I ESA, RWQCB concurrence has not been granted for these closure requests. In 2016, the City of Richmond submitted a request for closure

[7] The NFA letter for Tank 12 included references to required land-use restrictions upon with the NFA decision was made.

of Tank 2 (Terraphase 2016a). The RWQCB issued comments that have not been resolved to date (RWQCB 2016). Closure requests were not submitted for the remaining tanks (Tanks 3 and 5).

#### 6.3.1.2 *Extent of contamination*

The *Underground Storage Tank Management Plan* (Terraphase 2013b) summarized the extent of contamination remaining at the environmentally open USTs that have not achieved NFA status, which include the following: USTs 2, 3, 5, 6, 8, 13, 15, 18, and 19 as follows.

Summary of Soil Investigations

The CAP (TtEMI 2002b) discussed soil analytical results and observations of free petroleum product during the advancement of soil borings near the USTs. In general, UST soil borings indicated limited petroleum hydrocarbon contamination (no obvious product or relict petroleum hydrocarbon staining) in backfill material surrounding the USTs between the surface and 15 feet bgs (TtEMI 2002b). In 2009, the Navy collected soil samples adjacent to the USTs to assess the nature and extent of residual contamination (ChadeauxTt 2009). Soil samples were collected preferentially from obvious petroleum-impacted locations and from documented areas of historical contamination, at depths ranging from the ground surface to 30 feet bgs. Analytes included total petroleum hydrocarbons as jet fuel 5, TPH as bunker fuel, and TPH as diesel.

Soil analytical results and observations from soil borings collected between 1999 and 2009 indicate that residual petroleum in soil adjacent to the environmentally open USTs is undergoing natural attenuation and is relatively immobile (ChadeauxTt 2009).

Summary of Groundwater Monitoring

Selected wells adjacent to the USTs have been monitored since March 1999. The site-wide Groundwater Monitoring Plan (GWMP), dated August 19, 2011 (Terraphase 2011b), includes annual, wet-season, monitoring of “UST wells,” defined as UST monitoring wells near environmentally open USTs. Groundwater samples are collected from the UST wells for analysis of TPH compounds. In addition, depth-to-water and free-product measurements are collected at the UST monitoring wells during both dry- and wet-season groundwater monitoring events.

Groundwater samples collected during site-wide groundwater monitoring events since 2008 have been analyzed for TPH compounds using silica gel cleanup and lab filtration prior to analysis. TPH compound concentrations have generally shown either steady state or decreasing trends since 2008 (Terraphase 2013b). BTEX and PAHs are no longer analyzed in groundwater samples collected from the UST monitoring wells, in accordance with the site-wide GWMP (Terraphase 2011b).

Historically, several USTs wells have had a measurable thickness of free product; however, the measured thicknesses were generally less than 0.1 foot. Oil absorbent socks are currently being used in five UST wells where free product has historically been present (MWT05-02, MWT06-02, MWT08-01, MWT15-02, and MWTB-01R) and free product has not been detected at the Site during the most recent groundwater monitoring event (Terraphase 2019c). The lack of measurable free product thickness does not necessarily indicate that free product is not present at these locations because it may have been

captured by the absorbent sock. Absorbent socks have been used in wells MWT05-02, MWT06-02, MWT08-01, MWT15-02, and MWTB-01R since August 2014.

UST Management and Monitoring

In accordance with the requirements of the Water Board Order, an *Underground Storage Tank (UST) Management Plan* was prepared for the Site in 2013 (Terraphase 2013b) to outline the plan and schedule for obtaining NFA for the remaining environmentally open, but structurally closed tanks. The *Underground Storage Tank (UST) Management Plan* identified continued groundwater monitoring (to assess MNA progress, submittal of status reports, and evaluation of the environmentally open USTs through the State Water Resource Control Board's (SWRCB's) Low-Threat UST Case Closure Policy (SWRCB 2012) as the path to closure. As of the writing of this Phase I ESA, evaluations for closure under the *Underground Storage Tank (UST) Management Plan* were not identified.

Regardless of the closure status of the USTs with the RWQCB, all of the structurally closed-in-place USTs require ongoing maintenance and monitoring to reduce the chances that they will become a physical hazard. Routine monitoring and maintenance for Tanks 1 through 20 is conducted in accordance with the final Post-Closure UST Maintenance and Monitoring Plan (UST PMMP; ITSI 2005b) and the work plan for UST structural inspections (Terraphase 2011a). The CRUP recorded in 2010 also identifies certain restrictions on development for all of the large structurally closed in-place USTs at the Site.

Large Storage Tank Conclusions

The large USTs that have received regulatory closure, but require long-term monitoring to reduce the chances that they will become a physical hazard (Tanks 1, 4, 7, 9, 10, 11, 12, 14, 16, 17 and 20) and the fuel pipelines and valve boxes are identified as a CREC for the Subject Property

The large USTs that have not received regulatory environmental closure are identified as a REC for the Subject Property (Tanks B, C, 2, 3, 5, 6, 8, 13, 15, 18, and 19).

#### 6.3.1.3 *Aboveground Storage Tanks*

A total of 33 ASTs were identified at the Subject Property during previous assessments conducted at the Subject Property (TtEMI 2003a). The ASTs have reportedly been used for a variety of materials, including storage of diesel fuel, heating oil, propane, ice inhibitor, and water, as summarized in Table 2. Of the 33 ASTs, 14 have been removed from the Site (TtEMI 2003a). According to the FOST, no environmental conditions were associated with the ASTs.

AST Conclusions

Evidence of staining or release has not been documented for the ASTs. During the site reconnaissance, several of the ASTs that remain at the Site were observed inside secondary containment. Staining on the ground or concrete pads was not observed. Given the lack of evidence of releases, the ASTs are identified as a de minimis condition for the ASTs. Any surface contamination encountered in the vicinity of the ASTs would be handled in accordance with the requirements of the SGWMP.

#### 6.3.1.4 *Small Underground Storage Tanks*

In addition to the large USTs that were part of the Navy's fuel system, additional smaller USTs have been used at the Subject Property for a variety of purposes as summarized in Table 2 and discussed below:

- MG1 was an 8,000-gallon gasoline UST removed from the Site in 1999 under the oversight of the CCCEHSD. The UST was located within EBS Parcel 21.
- A 13,000-gallon UST located beneath Building 6 was used for heating oil. The UST was closed in-place (MK and PRC 1996).
- DVECC UST was a 1,000-gallon fiberglass tank adjacent to Building 87 used to store wastewater generated from the cleaning of pesticide application equipment removed from the Site in 1990 (TtEMI 2003a). The DVECC UST is associated with Building 87 and is considered a part of IR Site 4.
- UST 110 was a 5,000-gallon tank that previously stored motor gas fuel, contaminated fuels, and F76 marine diesel located within the boundaries of IR Site 3. The tank was removed in 1990 under the oversight of CCCEHSD. Soil samples collected from the tank grave had detected TPH concentrations; however, the Navy concluded that the source of the contamination may have been from past disposal practices (TtEMI 2003a).
- A 750-gallon UST located on the west side of Building 68 was used to hold diesel fuel used for a generator and pump associated with an adjacent pump house. The UST was removed some time in the 1990s under a permit from the City of Richmond Fire Department and CCCEHSD (TtEMI 2003a).
- A 750-gallon UST located on the southern side of Building 69 was used to hold diesel fuel used for a generator and pump associated with an adjacent pump house. The UST was removed some time in the 1990s under a permit from the City of Richmond Fire Department and CCCEHSD (TtEMI 2003a).
- Fifteen 550-gallon heating oil tanks served the housing units located at the Site. Use of the heating oil tanks ceased in 1995 when the last residents left the Subject Property and the USTs were later closed in-place (TtEMI 2003a).

Small UST Conclusions

The DVECC UST and UST 110 are considered under the IR Site 4 and IR Site 3 discussions, respectively.

MG1, the Building 6 UST, the Building 68 UST, the Building 69 UST, and the 15 closed in-place heating oil USTs are considered RECs for the Subject Property because evidence of soil sampling and regulatory closure for these tanks was not identified during the Phase I ESA.

## 6.4 Environmental Baseline Reports

As part of the BRAC process, an EBS was prepared for the Site in 1996 (MK and PRC 1996). The EBS provided Site use history as well as a review of the IR Sites, the UST areas, and areas outside of the scope of either program for potential environmental concerns and to identify where no further investigation or remedial activities were recommended. The EBS initially divided the Site into 37 EBS

parcels of land, although Parcel 1 and Parcel 37 included areas that are not part of the Subject Property (Parcel 1 was a portion of land leased from Chevron and Parcel 37 included submerged land beneath the pier formerly present at the Site). Figure 1-2, excerpted from the EBS and included as Appendix L, identifies the EBS parcel boundaries. The evaluation of the 37 parcels identified the obvious or likely presence of a release or threatened release of hazardous substances or petroleum products. The EBS parcels were categorized as one of seven Environmental Condition of Property (ECP) designations defined in BRAC guidance. Following the EBS, Phase II EBS investigations were conducted in specific areas identified in the EBS report in 1998 through 2002.

As a result of progress made under the environmental programs, a basewide supplemental EBS (SEBS) was completed in 2003 (TtEMI 2003a). The SBES recategorized the ECP designations for the 37 parcels based on updated investigation data. The EBS parcels were then re-grouped into 13 larger property disposal areas. A figure showing the disposal area boundaries is included in Appendix M. The subsections below summarize the information obtained from the EBS and SEBS reports that were not included in the IRP discussion (Section 6.2) or the storage tanks (Section 6.3). A summary of the information from the EBS and SEBS is provided in Table 3.

### 6.4.1 Electrical Transformers

The EBS identified 86 transformers at the Subject Property and summarized the polychlorinated biphenyl (PCB) analytical results for testing that was completed on seventy-seven of the transformers in 1993 (MK and PRC 1996). The majority of the transformers are/were pole-mounted. Of the transformers tested, 70 did not have PCBs detected in the oil greater than the laboratory reporting limit of 1 part per million (ppm), 10 contained oil with PCBs detected between 1 ppm and 50 ppm, and 7 were identified as PCB-contaminated transformers, meaning that PCBs were detected in the transformer oil at a concentration greater than 50 ppm but less than 500 ppm. Information regarding transformers at the Subject Property is summarized in Table 4. Figure 4-5, excerpted from the EBS and showing transformer locations, is included in Appendix N.

The seven PCB-contaminated transformers were replaced in 1999 (Allied Technology Group Inc. 1999). The transformers were removed by using a line truck and a bucket or lift truck with remote operated booms. Once removed, the transformers were placed in a temporary containment area located near power poles 46 and 47. The storage area was approximately 8 feet by 8 feet and included a plywood base covered with 30-mil tuck polyethylene liner. Plywood sheets were placed on the polyethylene liner and the area was bermed with 6-inch-high polyethylene lined boards. The transformers were shipped without draining their PCB transformer oil to Solomon Corporation in Kingman, Arizona, where the oil was drained and the casings flushed and salvaged. Oil with greater than 50 ppm of PCBs were shipped from Solomon to Safety Kleen's RCRA/TSCA-permitted TSD facility in Aragonite, Utah, for incineration.

Information contained in the SEBS indicated that several utility poles along the southern shoreline (Parcel 28) were cut down by vandals in 2002, but transformers located on the utility poles did not contain PCBs (TtEMI 2003a). Information regarding cleanup of the non-PCB transformer oil was not identified in the information reviewed as part of the Phase I ESA.

Information regarding PCB soil sampling in the vicinity of transformers that were identified as containing detectable levels of PCBs was not identified in the information reviewed as part of this Phase I ESA.

#### *Transformer Conclusions*

Leaks of transformer oil with greater than 1 ppm of PCBs from the transformers may have impacted shallow soil. Information regarding soil sampling in the vicinity of the transformers was not identified in the information reviewed as part of the Phase I ESA. Therefore, the transformers where PCBs were detected in oil greater than 1 ppm are identified as a REC to the Subject Property.

### 6.4.2 Former Small Arms Firing Range

A small arms firing range was located within EBS Parcel 14. Following the 1996 EBS, the Navy conducted investigations at Parcel 14 to evaluate risks to human health and the environment due to the former small arms firing range activities. Site-specific EBS investigation data were collected in 1998, 1999, and 2000. Elevated lead concentrations exceeding the preliminary remediation goal (PRG) for lead of 400 milligrams per kilogram (mg/kg) were detected in soil samples collected from the scatter zone in front of the target berm (western side) and at one location east of the target berm (sample location SS14-04 at 527 mg/kg; TtEMI 2002d). A risk assessment identified risks to potential future human and ecological receptors due to elevated lead concentrations detected in soil within the small arms Firing Range.

In June 2001, the Navy conducted site-specific supplemental Phase II EBS activities at EBS Parcel 14 in which they excavated 72 tons of lead-impacted soil from the target berm area (TtEMI 2002d). Five confirmation soil samples were collected following the excavation. The results of the confirmation soil samples plus the results of the surface soil samples that were collected during previous investigations that were not removed as a result of the excavation are summarized in Table 4 and were used to complete a human and ecological risk assessment (TtEMI 2002e). A total of 15 soil sample results were used in the risk assessment; detected lead concentrations of samples used in the risk assessment ranged from 42.5 mg/kg to 527 mg/kg (TtEMI 2002e). The 95% Upper Confidence Level (UCL) for lead was calculated as 193.71 mg/kg (TtEMI 2002e). The 95% UCL was used as the exposure point concentration in the HHRA. The health effects associated with exposure to lead in soil were evaluated for the Firing Range by estimating blood levels for the future adult and child residential receptor using a mathematical model developed by the DTSC assuming two cases: 1) assumed ingestion of homegrown produce grown at the site and 2) assumed no ingestion of homegrown produce grown at the site. Commercial/industrial worker and future construction worker exposure risks were not evaluated. The adult and child 99$^{th}$ percentile blood-lead concentrations estimated assuming consumption of home-grown produce were 3.1 and 9.4 micrograms (µg) of lead per deciliter (dL) of whole blood, respectively. The adult and child 99$^{th}$ percentile blood lead concentrations estimated assuming no consumption of home-grown produce were 1.7 and 6.3 µg/dL, respectively. The human health risk assessment concluded that a human health risk was no longer present at the Site following the lead-soil removal since the estimated blood levels were below the 10 µg/dL target blood level for all exposure scenarios.

With respect to the ecological risk screening, hazard quotients (HQs) estimated assuming a 100 percent bioavailability factor for lead exceeded 1 for all three receptors; however, significant concerns were

associated with the Toxicity Reference Value for lead and the use of the conservative bioavailability factor. Therefore, alternative risk calculations were completed using more realistic bioavailability factors for lead. Based on the alternate calculations, HQs were less than 1 for the California ground squirrel and the red-tailed hawk. The HQ for the western meadowlark was 4.31. Potential risks to ecological receptors were concluded to not likely be of concern because of the uncertainties and conservativism associated with the overall ecological risk screening.

Based on the results of the human and ecological risk screening, NFA was recommended for EBS Parcel 14. The RWQCB concurred with this finding in a letter dated December 3, 2002 (TtEMI 2003a).

#### *Former Small Arms Firing Range Conclusions*

The EPA still recognizes 10 µg/dL as the applicable blood level threshold and the residential Regional Screening Level (RSL; formerly PRG) for lead in soil is 400 mg/kg (EPA 2019). However, in 2007 the California Environmental Protection Agency (Cal-EPA) Office of Environmental Health Hazard Assessment (OEHHA) determined that environmental exposure leading to a rise in blood lead of greater than 1 µg/dL is the appropriate threshold criterion, as opposed to the 10 µg/dL threshold used in the HHRA. The OEHHA revisions resulted in reduced screening levels for lead used by RWQCB and DTSC of 80 mg/kg and 320 mg/kg for residential and commercial/industrial land use scenarios, respectively. The calculated 95% UCL for lead used in the HHRA (193.71 mg/kg) exceeds the residential screening level of 80 mg/kg, but is below the commercial/industrial screening level of 320 mg/kg. In addition, estimated adult and child 99$^{th}$ percentile blood-lead concentrations exceed the 1 µg/dL threshold; calculations were not completed for a commercial/industrial scenario.

Although there is a land-use restriction for the Site (as discussed in Section 3.2), a NFA determination for the former small arms firing range was made based on an unrestricted use assuming risk thresholds that are no longer used by the local regulatory agencies. Therefore, the former small arms firing range is identified as a REC for the Subject Property.

### 6.4.3 Building 18

Building 18 is located in EBS Parcel 21. The building is a single-story corrugated steel structure on a concrete foundation (MK and PRC 1996). The Navy used this building to store transportation-related equipment, chemicals, and fuel. Site-specific EBS investigation data were collected in 1998 and 1999. TCE was detected in a groundwater sample at a concentration of 3 µg/L and in a soil sample at a concentration of 28 micrograms per kilogram (µg/kg; TtEMI 2002d). Both concentrations were below applicable criteria and the Navy concluded no significant risk to human health or the environment existed in soil near Building 18 (TtEMI 2002d). Additional samples collected in the area did not identify TCE detected in soil or groundwater (TtEMI 2002d).

#### *Building 18 Conclusions*

Given the limited extent of detections, Building 18 is identified as a de minimis condition for the Subject Property.

### 6.4.4 Asbestos-Containing Material

The Navy formerly conducted several surveys on former family housing and commercial/industrial buildings at the Site to determine the presence of ACMs (TtEMI 2003a). Damaged, friable ACM was abated in 1998 (TtEMI 2003a). Nonfriable ACM identified was not abated (TtEMI 2003a). ACM was also noted to exist in wrapping and insulation on underground fuel and steam lines (TtEMI 2003a) and was encountered in the subsurface during remedial activities in IR Site 3 (Terraphase 2018).

#### *ACM Conclusions*

Asbestos that is within a building interior as a building material is excluded from Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and is not considered a REC. The confirmed and potential presence of ACM in the buildings at the Site and the potential for buried ACM to be present in the subsurface is noted as an environmental concern at the Subject Property.

### 6.4.5 Lead Based Paint

The Navy formerly conducted LBP inspections on a number of former family housing units at the Site. The Navy found LBP hazardous throughout the interior and exterior of the former housing units surveyed (TtEMI 2003a). Although LBP is considered a building material and is excluded from CERCLA, if the LBP is known or suspected to have impacted soil, the presence of LBP can be considered a REC in soils surrounding the affected structures. Significant damage (i.e., peeling and cracking paint) was noted to LBP surfaces in the SEBS (TtEMI 2003a).

#### *LBP Conclusions*

LBP on exterior surfaces can chip and flake and result in significant lead contamination in the drip lines of the buildings. No information pertaining to soil sampling conducted within the drip lines of buildings was identified during the information reviewed as part of this Phase I ESA. Given the confirmed presence of LBP in some buildings and the likely presence in other buildings based on the ages of the buildings, as well as the noted peeling and cracking condition of painted surfaces at the Site, the potential for lead in soil from the LBP on the structures at the Site is identified as a REC for the Subject Property.

## 6.5 Groundwater Monitoring

Site-wide groundwater monitoring is conducted per the RWQCB approved GWMP (Terraphase 2011b) and approved amendments. The current groundwater monitoring well network is based on an evaluation of the monitoring conducted to date and historical data trends. Past data indicate that the spatial distribution and concentrations of constituents of potential concern in groundwater have been well-characterized through past groundwater monitoring activities (Terraphase 2011b). Groundwater quality trends have been documented over approximately a decade of groundwater monitoring in most parts of the Site. The groundwater monitoring well network includes wells that were selected to monitor groundwater conditions along the perimeter of the Site along the San Francisco Bay, and additional groundwater monitoring wells in other selected areas of the Site.

The current monitoring well network includes six categories of wells:

1. Perimeter wells: wells located within 150 feet of the San Francisco Bay shoreline, including the northern and southern shoreline areas.

2. IR Site 3 Contingency Trench wells: wells installed in the contingency trench in the IR Site 3 remediation area.

3. IR Site 3 Contingency Trench Upgradient wells: wells installed in the area upgradient of the contingency trench in the IR Site 3 remediation area.

4. UST wells: wells near "open" USTs, i.e., tanks for which regulatory closure has not yet been obtained.

5. Drainage area wells: wells located at the base of major drainages that contain an open tank site or other sites.

6. Drum Lot 2 wells: wells located in the northern portion of former Drum Lot 2, where VOCs are present in groundwater.

The groundwater monitoring well network is presented on Figure 6.

The groundwater monitoring program includes gauging and sampling of the wells identified as part of the monitoring network on a semi-annual basis. Recent groundwater mentoring results indicated that free product was not detected in the monitoring wells. Estimated TPH and HOPs concentrations measured in certain wells were above ESLs and/or fuel product action levels (FPALs). These wells are mostly located in IR Site 3, adjacent to USTs, and in select perimeter locations (Terraphase 2019c). Groundwater monitoring results indicate relatively stable TPH and HOPs concentrations in groundwater (Terraphase 2019c).

Concentrations of chlorinated VOCs (CVOCs) in groundwater measured in the Drum Lot 2 area have generally been stable or decreasing, indicating the effectiveness of the implemented IRM. CVOC concentrations were below their respective Aquatic Habitat Goal ESLs which were the identified cleanup goal for the IRM. Detected concentrations of CVOCs, specifically TCE and vinyl chloride, exceed the residential vapor intrusion ESLs.

Figures from the most recent groundwater monitoring report are included in Appendix O.

### *Groundwater Contamination Conclusions*

Historical releases of petroleum and VOCs have resulted in impacts to groundwater at concentrations exceeding regulatory standards. Based on information contained in correspondence with the RWQCB, the presence of HOPs in perimeter groundwater has been identified as a potential threat to San Francisco Bay ecological receptors. The evaluation of HOPs in groundwater is part of the REC identified at IR Site 3 but is also a concern along the southern shoreline area. Groundwater monitoring is conducted under the sitewide groundwater monitoring program.

## 6.6 San Francisco Bay Trail at Point Molate Investigation

In support of the East Bay Regional Park District's San Francisco Bay Trail at Point Molate project, a Phase II investigation was completed along the proposed alignment of the trail (NCE 2016). Portions of the trail coincided with portions of the former Belt Line Railroad that ran adjacent to the shoreline at the Subject Property. A previous Phase I ESA conducted for the project identified the presence of several concerns, including the potential for impacted soils to be present along the former railroad corridor from historical railroad activities, including the use of lead arsenate pesticides along the railroad alignments. As part of the Phase II investigation, 149 samples were analyzed. Thirty-one of the samples analyzed that were located coincident with the former railroad corridor had detected arsenic concentrations above background levels detected in shallow soil (NCE 2016). In addition, lead was detected at concentrations exceeding residential screening criteria (NCE 2016). Recommendations were made in the Phase II report for managing the contamination in place including isolating the soil beneath a cap consisting of the Bay trail or soil and/or developing institutional controls to avoid exposures to affected soils. A copy of the Phase II investigation findings memorandum is included in Appendix P.

### *San Francisco Bay Trail at Point Molate Investigation Conclusions*

Investigation results indicate that past practices of herbicides (lead arsenate) may have impacted shallow soil in the vicinity of the former railroad tracks at the Site. Therefore, the former railroad tracks are identified as a REC for the Subject Property.

# 7.0 INTERVIEWS

Interviews were completed through questionnaires and correspondence with representatives of the City, the Navy, and the regulatory agencies as indicated below. Information provided by Winehaven Legacy (the User) is discussed in Section 3.

## 7.1 Interview with Current Owner Representatives

Terraphase provided a questionnaire to a representative of the City. The completed questionnaire is provided in Appendix B.

## 7.2 Interview with Former Owner Representative

Terraphase corresponded with Mr. David Clark with the Navy regarding information on the transformers and IR Site 2. Mr. Clark provided reports related to the requested areas, although he indicated that he was not aware of any soil sampling that was conducted in the vicinity of the former PCB-contaminated transformers at the Site.

## 7.3 Interviews with Regulatory Agency Representatives

Terraphase contacted local, county, and state agencies via telephone, electronic mail, letter, or in person, or accessed available records online to inquire as to whether they possessed relevant records regarding the Site, as discussed in Section 5.3.

# 8.0 SUBJECT PROPERTY RECONNAISSANCE

## 8.1 Methodology and Limiting Conditions

On August 19, 2019, Hallie Douglas, Senior Project Scientist with Terraphase, conducted a reconnaissance visit of the Subject Property to assess current land-use activities and environmental conditions. The site reconnaissance was documented with notes and photographs. Observations made during the reconnaissance are discussed below and selected photographs are provided in Appendix Q. The focus of the reconnaissance was to identify conditions that have the potential to cause adverse environmental impacts.

As part of the reconnaissance, Terraphase observed for evidence of the presence of hazardous substances used, stored, or discarded and reviewed the Subject Property for areas of disturbed or discolored soil, suspect equipment and/or building materials which may contain hazardous substances, areas of distressed vegetation, wastewater discharge areas, evidence of storage tanks/septic systems, waste management/disposal areas, lagoons, pits, sumps, surface water management areas, stained surfaces, etc.

## 8.2 Site Reconnaissance Observations

### 8.2.1 Current Use of the Property and General Observations

The Subject Property is generally a vacant parcel of land in Richmond, California. At the time of the site reconnaissance, the buildings that make up the historic Winehaven district were observed as well as a number of smaller buildings and structures constructed by the Navy. Generally, the buildings were observed in poor condition, with cracked foundations, peeling paint, and collapsed roofs observed on several of the buildings. Miscellaneous items were observed throughout the exterior and building interiors at the Subject Property. Items observed inside the buildings included old refrigerators and other appliances inside the former residences, and various office supplies inside Building 6 and instruments and other miscellaneous items inside Building 87. Observations of items on the exteriors of the buildings included, but were not limited to, tires along the shoreline; piles of rubble and plastic sheeting in Drum Lot 2; tools and drums near the landfill at IR Site 1; wooden pallets and construction debris, particularly in the areas near Buildings 123, 6, and 1; 55-gallon drums and buckets with unknown contents; abandoned campers and boats; gas cylinders; light poles; and street sign poles, and empty paint cans. Several ASTs are still present at the Site. It is unknown if the ASTs still contain liquids.

### 8.2.2 Subject Property Interior and Exterior Observations

Terraphase observed the exterior and accessible interior areas of the Subject Property for elements indicative of current and historical usage of hazardous substances, accessing and observing the Subject Property and areas accessible by public roads adjacent to the Subject Property.

Specific observations for elements indicative of current and historical usage of hazardous substances are provided below.

| Element | Observation |
|---|---|
| Current or former USTs | There are 20 large USTs that have been structurally closed in-place. In general, the only features of the large USTs that were visible are the vents and drains for the USTs. In addition, several smaller USTs were also closed in-place. Evidence of fill ports for the smaller USTs were not observed during the site reconnaissance. It possible the piping was removed during closure or the ports were overgrown with vegetation. |
| Current or former above ground storage tanks (ASTs) and silos | Numerous ASTs were observed on Site during the reconnaissance including the following:<br>• A large water tank outside of Building 66<br>• A diesel fuel AST outside of Building 73 (no secondary containment)<br>• A 20,000-gallon diesel tank outside of Building 13 (in secondary containment)<br>• A 1,000-gallon heating oil tank in the parking lot of Building 6<br>• Five 12,000-gallon lube oil tanks at the Drum Filling Plant (DFP) in Building 89<br>• The ice inhibitor and injection tank in Drum Lot 1<br>• An air tank outside of Building 69 |
| Polychlorinated biphenyl (PCB)-containing equipment | Transformers were not observed on the Subject Property during the site reconnaissance; however, PCB-contaminated transformers have been previously identified at the Site. |
| Hazardous materials and/or petroleum product use/storage | The historical use of the property was for a fuel depot. Evidence of past fuel storage and hazardous materials storage is well documented. During the site reconnaissance, numerous small containers of paint, petroleum, and 55-gallon drums were observed. |
| Hazardous waste | Hazardous waste generation was not observed at the time of the site reconnaissance. |
| Drums or other containers | Numerous 55-gallon drums were observed at various areas throughout the Site. The drums did not have labels, and the contents of the drums is not known. |
| Non-hazardous solid waste | Miscellaneous abandoned campers and boats were observed in the parking lot area near Building 123. |

| Element | Observation |
|---|---|
| Wastewater | Terraphase did not observe wastewater being generated at the Site during the reconnaissance. |
| Floor drains, sumps, and drywells | Floor drains, sumps, and drywells were not noted during the site reconnaissance. |
| Odors | Musty odors were observed inside the buildings at the Site; no other significant odors were observed during the site reconnaissance. |
| Pools of liquid | Pools of liquid were not observed during the site reconnaissance. |
| Pits, ponds, or lagoons | No pits, ponds, or lagoons were observed within the Site during the site reconnaissance. However, based on site infrastructure drawings, there are several stormwater retention facilities located at the Site. |
| Stressed vegetation | Terraphase observed stressed vegetation at the Site during the site reconnaissance; this is likely due to lack of rain/irrigation. |
| Stormwater | Stormwater was not observed at the Site at the time of the site reconnaissance. |
| On-Site wells | Numerous wells used for groundwater monitoring were observed during the site reconnaissance. |
| Septic systems | No onsite septic systems were identified at the Subject Property. |

### 8.2.3 Adjoining Property Observations

During the reconnaissance, Terraphase observed the adjoining properties from public roadways and the Subject Property. The purpose of these observations was to identify obvious uses or conditions at the adjoining properties likely indicative of a REC at the Subject Property.

The Subject Property is located adjacent to the Richmond Refinery. Active refinery activities were occurring at the time of the reconnaissance, although the operations were not visible from the site boundary.

# 9.0 FINDINGS, CONCLUSIONS, AND OPINIONS

Terraphase performed a Phase I ESA of the Subject Property in conformance with the scope and limitations of ASTM Practice E1527-13. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report.

## 9.1 RECs

A REC is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or the material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. Based on information reviewed during the Phase I ESA, Terraphase identified the following RECs for the Subject Property:

- Groundwater Contamination. Historical releases of petroleum and VOCs have resulted in impacts to groundwater at concentrations exceeding regulatory standards, particularly at IR Site 3, IR Site 4, and near several of the USTs. Groundwater monitoring is conducted under the sitewide groundwater monitoring program.

- IR Site 2 Areas 2A and 2B. A NFA determination for IR Site 2 Areas 2A and 2B was made based on an unrestricted reuse; however, applicable regulatory risk-based criteria have changed since that time. The results of confirmation soil samples collected from these areas exceed the current applicable regulatory screening criteria for lead for residential reuse.

- IR Site 3. IR Site 3 is the location of the former treatment ponds. Remedial activities were completed in 2014 and 2015. Additional activities are necessary before the regulatory agency issues approval of the remedial action. Groundwater monitoring for IR Site 3 is conducted under the sitewide groundwater monitoring program.

- IR Site 4. IR Site 4 includes Drum Lot 1, Drum Lot 2, and Building 87. Remedial activities have been implemented at Drum Lot 1, Drum Lot 2, and Building 87, and NFA is recommended by the Navy for soil in these areas. However, the regulatory agency has not concurred with these findings. RWQCB Order R2-2011-0087 requires completion of an additional risk assessment to evaluate potential threats to human health and the environment. Based on the outcome of this analysis, additional remediation or mitigation activities may be required in order to allow for redevelopment.

- USTs B, C, 2, 3, 5, 6, 8, 13, 15, 18, and 19. These tanks have been structurally closed in-place, but regulatory environmental closure has not been granted for these USTs. Post-closure maintenance and monitoring to reduce the chances that the tanks will become a physical hazard is conducted in accordance with the PMMP (ITSI 2005b) and the work plan for UST structural inspections (Terraphase 2011a). Land-use restrictions prohibit development in the area above the USTs. Groundwater monitoring of the UST sites is conducted under the sitewide groundwater monitoring program.

- Small USTs. Three smaller USTs (an 8,000-gallon gasoline UST and two 750-gallon diesel USTs) were removed from the Site in the 1990s. In addition, one 13,000-gallon heating oil UST under Building 6

and fifteen heating oil USTs near the former housing units located at the Site were closed-in-place. Evidence of soil sampling associated with closure of these USTs was not identified in the information reviewed as part of the Phase I ESA.

- Former Small Arms Firing Range. A NFA determination for the former small arms firing range was made based on an unrestricted use assuming risk thresholds that are no longer used by the local regulatory agencies. The calculated 95% UCL for lead used in the HHRA (193.71 mg/kg) exceeds the current residential screening level used by RWQCB and DTSC of 80 mg/kg, but is below the commercial/industrial screening level of 320 mg/kg. In addition, estimated adult and child 99$^{th}$ percentile blood-lead concentrations exceed the 1 µg/dL threshold; calculations were not completed for a commercial/industrial scenario.

- Soil in Dripline of Buildings Painted with LBP. LBP has been identified on exterior surfaces of buildings at the Site. LBP on exterior surfaces can chip and flake and result in lead contamination in the soil near the drip lines of the buildings. No information pertaining to soil sampling conducted within the drip lines of buildings was identified during the information reviewed as part of this Phase I ESA.

- Transformers. Several pole-mounted and some pad-mounted transformers are or have been located at the Site. Seventeen of the transformers were identified as containing PCBs at levels greater than laboratory reporting limits. PCB-contaminated transformers (i.e., transformers where PCBs were detected at concentrations greater than 50 ppm) were replaced, but transformers with PCBs less than 50 ppm may still be present at the Site. Information regarding the condition of the transformers (i.e., whether evidence of leaks or seeps were observed) was not found in information reviewed, and soil sampling in the vicinity of the transformers was not conducted. Leaks of transformer oil with greater than 1 ppm PCBs from the transformers may have impacted shallow soil.

- Former Railroad Tracks. Railroad tracks were constructed adjacent to the shoreline at the Site and used by Winehaven and the Navy for bulk transport. Additional railroad spurs were constructed by the Navy accessing Drum Lots 1 and 2. The railroad coincided with other areas previously investigated and locally remediated for petroleum hydrocarbons. Further investigations were conducted in the vicinity of the railroad tracks in support of development of the San Francisco Bay Trail in areas coinciding with the railroad tracks. These investigations identified areas of elevated concentrations of arsenic and lead in shallow soil above applicable regulatory screening levels.

## 9.2 Controlled RECs

CRECs are RECs resulting from a past release of hazardous substances or petroleum products that have been addressed to the satisfaction of the applicable regulatory authority with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. Based on information reviewed during the Phase I ESA, Terraphase identified the following CRECs for the Subject Property:

- IR Site 1. IR Site 1 is a closed landfill that was used by the Navy with wastes capped in place. A ROD was filed for the Site by the Navy and approved by the RWQCB. The landfill is subject to land use restrictions and requires long-term operations and maintenance.

- USTS 1, 4, 7, 9, 10, 11, 12, 14, 16, 17 and 20 and Fuel Pipelines. The USTs were structurally closed in-place and regulatory environmental closure was received for these tanks from the RWQCB. Post-closure maintenance and monitoring to reduce the chances that the tanks will become a physical hazard is conducted in accordance with the PMMP (ITSI 2005b) and the work plan for UST structural inspections (Terraphase 2011a). Land use restrictions prohibit development in the area above the USTs. Fuel pipelines and valve boxes were removed and addressed under the CAP. Residual contamination in groundwater is monitored under the sitewide groundwater monitoring program.

## 9.3 Historical RECs

HRECs are defined as past releases of any hazardous substances or petroleum products that have occurred in connection with the property and have been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. Based on information reviewed during the Phase I ESA, Terraphase identified the following HRECs for the Subject Property:

- IR Site 2 Areas 2C, 2D, and 2E. These subareas of IR Site 2 have received closure from the regulatory agency with unrestricted reuse. The results of the confirmation samples collected from these areas are below applicable regulatory standards.

## 9.4 De Minimis Conditions

Terraphase identified the following de minimis conditions during this Phase I ESA.

- Building 18. Previous investigations found a small area of TCE detected in soil and groundwater at concentrations below applicable regulatory criteria.

- ASTs. Numerous ASTs have previously operated at the Site. Many of the ASTs have been removed, although some remain at the Site. Evidence of releases were not reported in information reviewed or observed during the site reconnaissance. Any residual surface contamination that may be encountered will be addressed through the SGWMP.

## 9.5 Data Gaps

A data gap is a lack or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice. The following data gaps were identified during the Phase I ESA:

- UST Locations. Information regarding the locations of the former USTs closed in place beneath Building 6 and at the former residences was not identified. Based on the reviewed sources of available information, this data gap is not considered to be significant.

- Entry into Buildings. Entry into several small buildings at the Site was not obtained during the site reconnaissance. Based on the reviewed sources of available information, this data gap is not considered to be significant.

- Septic Tanks. The EBS noted a former septic tank associated with Building 75. Evidence of the septic tank removal was not identified. Based on the reviewed sources of available information, this data gap is not considered to be significant, but the potential for the presence of septic tank(s) at the Site should be noted for future demolition activities.

## 9.6 Deviations and Non-Scope Services

In performance of this Phase I ESA, Terraphase has identified no exceptions or deviations from the ASTM E1527-13 standard of practice.

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# 11.0 QUALIFICATIONS OF STAFF

*Wendy Bellah, PE, QISP, Principal Engineer*

Ms. Bellah is a Principal Engineer with Terraphase and has more than 19 years of experience in environmental due diligence site assessments and subsurface investigations at various industrial, commercial, and residential properties located throughout California. Ms. Bellah has coordinated and performed numerous Phase I Environmental Site Assessments per ASTM E1527 Standard Practices and per financial, developer, and owner-specific guidelines. Assessed sites include power generation facilities, former machines shops, agricultural properties, circuit board manufacturers, lumber treatment facilities, residential properties, warehouses and distribution centers, and various commercial properties including a number of shopping centers, gasoline filling stations, and automobile repair and paint shops. Ms. Bellah holds a Bachelor of Science degree in Biological Resources Engineering from the University of Maryland.

Ms. Bellah meets the requirements of an “Environmental Professional”, as described in EPA’s All Appropriate Inquiries Rule.

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# TABLES

**Table 1**
**IR Site 2 Sandblast Grit Confirmation Sampling Results**
Former Naval Fuel Depot Point Molate
Richmond, California

| | Antimony | Cadmium | Chromium | Cobalt | Copper | Lead | Nickel | Thallium | Zinc | Hexavalent Chromium |
|---|---|---|---|---|---|---|---|---|---|---|
| *Screening Levels* | | | | | | | | | | |
| *Tier 1 ESL* | *11* | *1.9* | *120,000* | *23* | *180* | *32* | *86* | *.78* | *340* | *.3* |
| *Residential ESL* | *11* | *78* | *120,000* | *23* | *3,100* | *80* | *820* | *.78* | *23,000* | *.3* |
| *C/I ESL* | *160* | *1,100* | *1,800,000* | *350* | *47,000* | *320* | *11,000* | *12* | *350,000* | *6.2* |
| *Construction Worker ESL* | *50* | *51* | *530,000* | *28* | *14,000* | *160* | *86* | *3.5* | *110,000* | *2.8* |
| *Terrestrial Habitat* | *25* | *1.9* | - | *50* | *180* | *32* | *130* | *1.8* | *340* | *10* |
| **AREA 2A** | | | | | | | | | | |
| SS2A-01 | 8.2 | 0.23 | 554 | 13.3 | 15.7 | 22.4 | ***278*** | ND | 153 | - |
| SS2A-02 | 4.3 | 0.78 | 261 | 12.9 | 23.2 | ***104*** | **109** | ND | 162 | ND |
| SS2A-03 | 2.2 | 0.064 | 123 | 12.8 | 13.2 | 16.1 | ***580*** | ND | 70 | ND |
| SS2A-04 | 0.98 | ND | 14.7 | 4.2 | 12.3 | 12.4 | 13.6 | ND | 41.3 | ND |
| SS2A-05 | 1.2 | 0.6 | 23.7 | 7.4 | 26.1 | ***226*** | 23.1 | ND | 163 | - |
| AREA 2A Average | 3.4 | 0.42 | 195 | 10.1 | 18.1 | ***76.2*** | ***201*** | ND | 118 | ND |
| **AREA 2B** | | | | | | | | | | |
| SS2B-01 | 2.1 | 0.41 | 77.8 | 11.9 | 28.9 | ***126*** | 43.6 | ND | 163 | ND |
| SS2B-02 | 1.1 | ***2.5*** | 58.8 | 10.9 | 23.3 | ***96.9*** | 38.8 | ND | 164 | - |
| SS2B-03 | 2.4 | 1.4 | 131 | 13.1 | 45.8 | 445 | 59.7 | ND | ***448*** | ND |
| SS2B-04 | 5.2 | 0.86 | 268 | 13.1 | 32.1 | ***278*** | 79.8 | ND | 233 | - |
| SS2B-05 | 6.9 | 0.82 | 415 | 12.5 | 44.9 | ***269*** | ***170*** | ND | 315 | - |
| AREA 2B Average | 3.5 | 1.2 | 190 | 12.3 | 35 | ***243*** | 78.4 | ND | 265 | ND |
| **AREA 2C** | | | | | | | | | | |
| SS2C-01 | 0.93 | 0.28 | 27.6 | 9.8 | 25.1 | ***57.1*** | 31.1 | ND | 95.5 | ND |
| **AREA 2D** | | | | | | | | | | |
| SS2D-02 | 1.1 | 0.096 | 21.2 | 14.1 | 28.5 | 23 | 26.8 | ND | 70.8 | - |
| SS2D-03 | ND | 0.06 | 22.4 | 13.6 | 32.4 | ***33.4*** | 30.7 | ND | 112 | ND |
| SS2D-04 | ND | 0.15 | 23.3 | 14.6 | 31.5 | 30.3 | 33.2 | ND | 92.8 | ND |
| SS2D-05 | ND | 0.079 | 33.5 | 14.2 | 28.9 | 31.4 | 34.7 | ND | 88.6 | ND |
| AREA 2D Average | 1.1 | 0.1 | 25.1 | 14.1 | 30.3 | 29.5 | 31.4 | ND | 91.1 | ND |
| **AREA 2E** | | | | | | | | | | |
| SS2E-01 | 1 | 0.37 | 28.7 | 11 | 51.5 | ***53.6*** | 29.8 | ND | 131 | ND |

**Table 1**
**IR Site 2 Sandblast Grit Confirmation Sampling Results**
Former Naval Fuel Depot Point Molate
Richmond, California

Notes:
Results reported in milligrams per kilogram
Results were reported in the Sandblast Grid Areas (Site 2) Removal Action Final Project Completion Report prepared by Tetra Tech EM, Inc. (TtEMI) and dated November 4, 1998.
C/I = commercial/industrial
ESL = Enviornmental Screening Level
ND = not detected above laboratory reporting limit (reporting limit not provided in report table)
Screening levels are from the San Francisco Regional Water Quality Control Board Environmental Sreening Levels Rev. 2 prepared in 2019.

| | |
|---|---|
| **bold font** | = sample result exceeds Tier 1 ESL |
| | = sample result exceeds Residential ESL |
| | = sample result exceeds C/I ESL |
| | = sample result exceeds construction worker ESL |
| *Italic font* | = sample results exceeds terrestrial habitat ESL |

**Table 2**
**Summary of USTs and ASTs**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | Tank Identifier | Type | Former Contents | Size (gallons) | Status |
|---|---|---|---|---|---|
| **Large Underground Storage Tanks** | | | | | |
| 27 | Tank 1 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2006. |
| 27 | Tank 2 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 27 | Tank 3 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 24 | Tank 4 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2010. |
| 6 | Tank 5 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 6 | Tank 6 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 6 | Tank 7 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2007. |
| 6 | Tank 8 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 5 | Tank 9 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2007. |
| 3 | Tank 10 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2008. |
| 2 | Tank 11 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2008. |
| 4 | Tank 12 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2012. |
| 8 | Tank 13 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 9 | Tank 14 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2008. |
| 10 | Tank 15 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 11 | Tank 16 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2007. |
| 12 | Tank 17 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | UST closed in place. RWQCB NFA in 2007. |
| 10 | Tank 18 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 10 | Tank 19 | UST | bunker, marine diesel, and jet turbine fuels | 2,100,000 | Structurally closed in place; awaiting environmental closure |
| 7a | Tank 20 | UST | bunker, marine diesel, and jet turbine fuels; naval ballast, sediment, and wastewaters | 2,100,000 | UST closed in place. RWQCB NFA in 2006. |
| 26 | Tank B | UST | waste oil, sludge, or ballast water | 580,000 | Removed; awaiting environmental closure |
| 26 | Tank C | UST | waste oil, sludge, or ballast water | 100,800 | Removed; awaiting environmental closure |

**Table 2**
**Summary of USTs and ASTs**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | Tank Identifier | Type | Former Contents | Size (gallons) | Status |
|---|---|---|---|---|---|
| **Small Underground Storage Tanks** | | | | | |
| 8 | Tank A | UST | fire supression | unknown | Still present at Site |
| 15 | Residential UST 1 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 2 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 3 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 4 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 5 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 6 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 7 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 8 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 9 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 10 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 11 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 12 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 13 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 14 | UST | heating oil | 550 | closed in place |
| 15 | Residential UST 15 | UST | heating oil | 550 | closed in place |
| 11 | MG-1 | UST | motor oil | 8,000 | Removed |
| 22 | UST Beneath Bldg 6 | UST | heating oil | 13,000 | closed in place |
| 25 | Tank 110 | UST | gasoline, off spec fuel, F76 | 5,000 | Removed |
| 30 | DVECC Fiberglass UST | UST | waste water | 1,000 | Removed |
| 26 | Bldg 68 | UST | fuel (for generators and pumps) | 750 | Removed |
| 28 | Bldg 69 | UST | fuel (for generators and pumps) | 750 | Removed |

**Table 2**
**Summary of USTs and ASTs**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | Tank Identifier | Type | Former Contents | Size (gallons) | Status |
|---|---|---|---|---|---|
| **Aboveground Storage Tanks** | | | | | |
| 27 | Tank D | AST | reclamation | 420,000 | Removed |
| 20 | Tank E | AST | fuel oil | 420,000 | Removed |
| 25 | Tank F | AST | fuel reclamation | 315,000 | Removed |
| 25 | Tank G | AST | fuel reclamation | 426,132 | Removed |
| 1 | N5 | AST | unknown | unknown | Removed |
| 20 | Verticle Tube Coalescers 1 and 2 | AST | water and oil mix | unknown | Removed |
| | GW Extraction Tank | AST | groundwater extraction | 500 | Removed |
| | GW Extraction Tank | AST | groundwater extraction | 500 | Removed |
| | GW Extraction Tank | AST | groundwater extraction | 1,000 | Removed |
| 25 | CPS 1 | AST | OWS | unknown | Removed |
| 25 | CPS 2 | AST | OWS | unknown | Removed |
| 25 | Treatment Ponds | AST | unknown | 1,000 | Removed |
| 32 | Drum Lot 1 | AST | portable fuel tank | unknown | Removed |
| 32 | Beach Tank | AST | Storm water | 4,320 | Removed |
| 25 | ORS1 | AST | OWS | unknown | Removed |
| 25 | ORS2 | AST | OWS | unknown | Removed |
| 25 | Building 125 | AST | unknown | unknown | Removed |
| 5 | Building 66 | AST | water | 30,000-40,000 | Confirmed. Still present. |
| 8 | Building 73 | AST | diesel | 5,000 | Confirmed. No secondary containment. No staining. Underground piping not observed. |
| 21 | Building 123 | AST | Solvent wash | 55 | Not observed. Status unknown |
| 21 | Building 13 | AST | diesel | 20,000 | Present. In secondary containment |
| 21 | Building 123 | AST | heating oil | 500 | Not observed. Status unknown |
| 21 | Building 13 | AST | unknown | 55 | Not observed. Status unknown |
| 22 | Bldg 6 parking lot | AST | heating oil | 1,000 | confirmed. In secondary containment |
| 30 | Building 87 | AST | propane | 1,000 | Not observed. Status unknown |
| 32 | North of Beach Tank | AST | diesel | 200 | Not observed. Status unknown |
| 32 | DFP1 - Bldg 89 | AST | lube oil | 12,000 | still present in building; concrete pad, no stains. |
| 32 | DFP2 - Bldg 89 | AST | lube oil | 12,000 | still present in building; concrete pad, no stains. |
| 32 | DFP3 - Bldg 89 | AST | lube oil | 12,000 | still present in building; concrete pad, no stains. |
| 32 | DFP4 - Bldg 89 | AST | lube oil | 12,000 | still present in building; concrete pad, no stains. |
| 32 | DFP5 - Bldg 89 | AST | lube oil | 12,000 | still present in building; concrete pad, no stains. |
| 32 | FSII System Tank | AST | Ice inhibitor | 10,000 | Still present in containment |
| 32 | FSII System Tank | AST | injection of ice inhibitor | 5,349 | Still present in containment |
| 32 | Building 132 | AST | heating oil | 1,000 | Identified. In secondary containment. |
| 32 | Building 69 | AST | air | unknown | Identified during Site recon |

**Table 3**
**EBS Parcel Summary**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | EBS Parcel Size (acres) | SEBS Disposal Area | Parcel Features | Current Status | Phase I ESA Findings |
|---|---|---|---|---|---|
| Parcel 2 | 4.8 | 1 | Tank 11 - unlined 2.1-million gallon concrete UST built 1943 | UST closed in place. RWQCB NFA in 2008. | CREC |
| Parcel 3 | 8.4 | 1 | Tank 10 - unlined 2.1-million gallon concrete UST built 1943 | UST closed in place. RWQCB NFA in 2008. | CREC |
| Parcel 4 | 6.2 | 1 | Tank 12 - unlined 2.1 million gallon concrete UST built 1943 | UST closed in place. RWQCB NFA in 2012. | CREC |
| Parcel 5 | 9.3 | 1 | Tank 9 - unlined 2.1 million-gallon concrete UST built 1943 | UST closed in place. RWQCB NFA in 2007. | CREC |
| | | | Building 66 - 30,000 to 40,000-gallon steel AST used for water storage | Currently at Site. | de minimis |
| Parcel 6 | 22.3 | 1 | Tank 5- unlined 2.1 million-gallon concrete UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| | | | Tank 6 - unlined 2.1 million-gallon concrete UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| | | | Tank 7 - unlined 2.1 million-gallon concrete UST built 1943 | UST closed in place. RWQCB NFA in 2007. | CREC |
| | | | Tank 8 - unlined 2.1 million-gallon concrete UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| Parcel 7a | 16.7 | 1 | Tank 20 - lined 2.1-million gallon UST built 1943 | UST closed in place. RWQCB NFA in 2006. | CREC |
| Parcel 7b | | 10 | IR Site 1 - Waste Disposal Area | ROD Signed 2005 | CREC |
| Parcel 8 | 4.8 | 1 | Tank 13 - unlined 2.1 million-gallon concrete UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| | | | Tank A - unlined concrete tank (unk capacity) for fire suppression | Currently at Site | de minimis |
| | | | Building 73 - water pump house for Tank A | Currently at Site | de minimis |
| | | | Building 115 - Transformer shack associated with antenna | Currently at Site | de minimis |
| | | | Structure 121 - antenna | Currently at Site | de minimis |
| | | | AST - 5,000-gallon diesel fuel storage | Currently at Site; in secondary containment. | de minimis |
| Parcel 9 | 4.7 | 1 | Tank 14 -unlined 2.1 million-gallon concrete UST built 1943 | UST closed in place. RWQCB NFA in 2008. | CREC |
| | | | Fuel lines | Remedial activities completed under CAP | CREC |
| Parcel 10 | 13.2 | 1 | Tank 15 - lined 2.1-million gallon UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| | | | Tank 18 - lined 2.1-million gallon UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| | | | Tank 19 - lined 2.1-million gallon UST built 1943 | Structurally closed in place; awaiting environmental closure | REC |
| Parcel 11 | 14.9 | 1 | Tank 16 - unlined 2.1-million gallon UST built 1943 | UST closed in place. RWQCB NFA in 2007. | CREC |
| Parcel 12 | 14.4 | 6 | Tank 17 - unlined 2.1-million gallon UST built 1943 | UST closed in place. RWQCB NFA in 2007. | CREC |
| | | | Building 79 - a stevedores building demolished in late 1950s | Demolished | de minimis |
| Parcel 13 | 7.5 | 6 | IR Site 2 - Area 2D | ROD Signed 2000. NFA recommended. | HREC |
| Parcel 14 | 9.7 | 6 | Former small arms firing range | Removal action complete; lead above current residential screening levels | REC |
| | | | Building 24 - storage shed | Status unknown | de minimis |
| | | | Building 93 - firing range shack | Status unknown | de minimis |
| | | | Building 75 - building foundation with septic tank | Building foundation present at Site; unk status of septic tank | Other |
| Parcel 15 | 4.8 | 2 | 27 housing units - former residential structures for Winehaven employees, then Navy personnel | Currently at Site; Asbestos abatement completed in August 1998 | REC (LBP) |
| | | | Building 55 - garage | Currently at Site; poor condition | REC (LBP) |
| | | | Building 65 - garage | Currently at Site; poor condition | REC (LBP) |
| | | | Building 67 - garage | Currently at Site; poor condition | REC (LBP) |
| | | | Building 80 - garage | Currently at Site; poor condition | REC (LBP) |
| | | | Building 111 - garage | Currently at Site; poor condition | REC (LBP) |
| | | | Building 81 - storage shed | Currently at Site; poor condition | REC (LBP) |
| | | | Structure 102 - tennis court | Currently at Site; poor condition | None |
| | | | Structure 103 - play structure | Currently at Site; poor condition | None |
| | | | Archeological site CA-CCO-423 | Currently at Site | None |
| | | | 15 USTs - each 550-gallons and formerly used for heating oil | Currently at Site | REC |
| | | | fuel pipelines | Remedial activities completed under CAP | CREC |
| Parcel 16 | 2.3 | 2 | Railroad tracks | In place; previous investigations identified elevated arsenic in soil in railroad alignments | REC |
| | | | Building 23 - former roundhouse | Demolished | de minimis |
| | | | Building 25 - joiner shop | Demolished | de minimis |
| | | | Building 26A - lumber storage | Demolished | de minimis |

**Table 3**
**EBS Parcel Summary**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | EBS Parcel Size (acres) | SEBS Disposal Area | Parcel Features | Current Status | Phase I ESA Findings |
|---|---|---|---|---|---|
| Parcel 17 | 1.4 | 2 | fuel lines | Remedial activities completed under CAP | CREC |
| Parcel 18 | 1.7 | 2 | Building 10 - Winehaven operational building; former Navy petroleum testing lab | Currently present at Site | Other (LBP/ACM) |
| Parcel 19 | 4.4 | 2 | Building 1 - former Winehaven warehouse; storage of new and used drums, chemicals and emergency spill equipment | Building present at Site; historical structure | Other (LBP/ACM) |
| Parcel 20 | 1.6 | 3 | Within IR Site 3 | (See discussion for EBS Parcel 25) | REC |
| | | | Building 95 - shed | Demolished | de minimis |
| | | | Tank E - 420,000-gallon (10,000 barrel) welded steel fuel oil AST built 1977 | Removed | de minimis |
| | | | Two ASTs with vertical tube coalescers (unk size) | Removed | de minimis |
| Parcel 21 | 4.4 | 11 | IR Site 2 Areas A and B | ROD Signed 2000. Lead present at concentrations exceeding current residential screening criteria | REC |
| | | | Building 13 - former Winehaven power and steam plant | Building present at Site; historical structure | Other (LBP/ACM) |
| | | | Building 14 - former administrative building on Site of Bldg. 123; burned down 1967 | Burned down 1967 | de minimis |
| | | | Building 15 - demolished carpenter shop | Demolished | de minimis |
| | | | Building 16 - demolished storehouse | Demolished | de minimis |
| | | | Building 19 - demolished welding shop | Demolished | de minimis |
| | | | Building 22 - demolished warehouse | Demolished | de minimis |
| | | | Building 17 - Winehaven building; Navy maintenance shop | Building present at Site; historical structure | Other (LBP/ACM) |
| | | | Building 18 - Navy transportation-related equipment storage | Not observed at Site; status unknown | de minimis |
| | | | Building 21 - corrugated steel Quonset hut used by Navy for fuel testing; hazardous waste storage area on west side | Present at site | Other (LBP/ACM) |
| | | | Building 64 - demolished firehouse storage | demolished | de minimis |
| | | | Building 85 - former Navy paint shop; hazardous waste storage area south of building | Present at Site | Other (LBP/ACM) |
| | | | Building 88 - former Navy wash shed | Not observed at Site; status unknown | de minimis |
| | | | Building 123 - maintenance shop; security force and admin uses | Currently at Site | Other (LBP/ACM) |
| | | | Two unnumbered sheds | Not observed at Site; status unknown | de minimis |
| | | | MG-1 - 8,000-gallon motor oil UST | Removed; no RWQCB closure letter | REC |
| | | | 20,000-gallon AST - diesel | Present; in secondary containment | de minimis |
| | | | 500-gallon AST - heating oil (bldg. 123) | Not observed; status unknown | de minimis |
| | | | 55-gallon AST - solvent wash (bldg. 12) | Not observed; status unknown | de minimis |
| | | | 55-gallon AST - unknown use | Not observed; status unknown | de minimis |
| Parcel 22 | 4 | 2 | Building 6 - Winehaven Administration and Warehouse Building | Building present at Site; historical structure | Other (LBP/ACM) |
| | | | 13,000-gallon UST - former heating oil beneath Bldg. 6 | UST closed in-place | REC |
| | | | fuel pipelines | Remedial activities completed under CAP | CREC |
| Parcel 23 | 2.8 | 2 | Foundation of former Winehaven hotel | Currently present at Site | de minimis |
| | | | fuel pipelines | Remedial activities completed under CAP | CREC |
| Parcel 24 | 7 | 1 | Tank 4 - lined concrete 2.1-million gallon UST built in 1943<br>Catch Basin 3 | UST closed in place. RWQCB NFA in 2010. | CREC |

**Table 3**
**EBS Parcel Summary**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | EBS Parcel Size (acres) | SEBS Disposal Area | Parcel Features | Current Status | Phase I ESA Findings |
|---|---|---|---|---|---|
| Parcel 25 | 9.4 | 3 | IR Site 3 | Remedial activities completed 2015; regulatory approval pending. | REC |
| | | | Building 82 - Pump House 3 (demolished 2014) | Demolished 2014 | None |
| | | | Building 83 - Pump House 4 (demolished 2014) | Demolished 2014 | None |
| | | | Building 94 - truck loading rack (demolished) | Demolished | None |
| | | | Building 125 - former sewage treatment plant (demolished 2014) | Demolished 2014 | None |
| | | | Building 127 - wastewater treatment plant with two large sand filters, a chlorination system, and a dechlorination system (demolished) | Demolished | None |
| | | | Building 72 -demolished operations building | Demolished | None |
| | | | Building 92 - demolished Imhoff Building | Demolished | None |
| | | | Three former treatment ponds (removed) - IR Site 3 | Removed | see IR Site 3 |
| | | | CPS1 - oil water separator (removed) | Removed | de minimis |
| | | | CPS2 - oil water separator (removed) | Removed | de minimis |
| | | | ORS1 - oil water separator (removed) | Removed | de minimis |
| | | | ORS2 - oil water separator (removed) | Removed | de minimis |
| | | | Tank F - 315,000 gallon steel-welded AST used as reclamation tank (removed) | Removed | de minimis |
| | | | Tank G -426,132 gallon steel-welded AST used as reclamation tank (Removed) | Removed | de minimis |
| Parcel 26 | 3.3 | 2 | Building 68 | In place | Other (LBP/ACM) |
| | | | Building 86 - Pump House (no number designation) | In place | Other (LBP/ACM) |
| | | | Tank B - unlined 579,600 gallon concrete UST built 1943 (BS&W, off-spec fuel) | Removed; awaiting environmental closure | REC |
| | | | Tank C - unlined 100,800-gallon concrete UST built 1943 (sludge) | Removed; awaiting environmental closure | REC |
| Parcel 27 | 15.4 | 1 | Tank D - 420,000-gallon steel welded AST used for reclamation for oil/water separator; removed in Sept 1984 | AST removed. | de minimis |
| | | | Tank 1 - lined 2.1 million-gallon concrete UST built 1943 (NFSO, DFM, JP-5) | UST closed in place. RWQCB NFA in 2006. | CREC |
| | | | Tank 2 - lined 2.1 million-gallon concrete UST built 1943 (NFSO, DFM, JP-5) | Structurally closed in place; awaiting environmental closure | REC |
| | | | Tank 3 - lined 2.1 million-gallon concrete UST built 1943 (NFSO, DFM, JP-5) | Structurally closed in place; awaiting environmental closure | REC |
| Parcel 28 | 7.4 | 1 | Southern shoreline (formerly part of IR Site 4) | Remedial activities completed under CAP | CREC |
| | | | fuel pipelines | Remedial activities completed under CAP | CREC |
| | | | valve boxes | Remedial activities completed under CAP | CREC |
| Parcel 29 | 11.6 | 5 | IR Site 4 Drum Lot 2 - historically used to store bulk drums and previously store and maintain rail cars | Interim Remedial Actions; further action necessary | REC |
| | | | IR Site 2 - Areas 2 C and E | ROD signed 2000; NFA recommended | HREC |
| | | | Building 85 - jitney shed; demolished 1957 | Demolished | de minimis |
| Parcel 30 | 1.3 | 5 | IR Site 4 - Building 87 (DVECC Building) - Quonset hut used for train maintenance; industrial supply warehouse; equipment repair and training by DVECC | Currently at Site; pesticide soil excavation conducted | REC |
| | | | Chinese Shrimp Fishing Village (historical feature) | historical feature | none |
| | | | 1,000-gallon fiberglass UST used for sink waste water in training area (removed 1990) | removed | de minimis |
| | | | 1,000-gallon propane AST | Not observed. Status unknown | de minimis |
| Parcel 31 | 18.2 | 4 | Recreational beach/park area | Currently at Site | None |
| | | | Southern shoreline (formerly part of IR Site 4) | Remedial activities completed under CAP | CREC |
| | | | Chinese Shrimp Fishing Village (historical feature) | historical feature | None |
| | | | Portion of IR Site 4 Drum Lot 2 parcel used for drum storage by Navy | Part of IR Site 4 | REC |

**Table 3**
**EBS Parcel Summary**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel | EBS Parcel Size (acres) | SEBS Disposal Area | Parcel Features | Current Status | Phase I ESA Findings |
|---|---|---|---|---|---|
| Parcel 32 | 14.3 | 13 | IR Site 4 Drum Lot 1 | Needs further evaluation through risk assessment | REC |
| | | | Building 69 - Pump House 1 (JP-5) (removed) | Demolished | de minimis |
| | | | Building 70 - Gagers' gear locker | Not observed. Status unknown | de minimis |
| | | | Building 77 - Compressor storage and oil spill supplies | In place | Other (LBP/ACM) |
| | | | Building 89 - used to dispense POL to barrels for distribution (prior Building 71) | In place | Other (LBP/ACM) |
| | | | Building 132 - engineering offices and gagers' locker room (built 1988) | In place | Other (LBP/ACM) |
| | | | Pump House 6 (Demolished) | Demolished | de minimis |
| | | | Petroleum Oils and Lubricants (POL) Pump High Voltage Station | Partially demolished | de minimis |
| | | | POL Pumping Station | Partially demolished | de minimis |
| | | | DPF1 through DPF5 - Five ASTs are each 12,000-gallon in size inside Bldg. 89. Used for bulk dispensing of lubrication oils | Currently present at Site | de minimis |
| | | | Beach Tank - 110-barrel (4,620-gallons) AST used for runoff from Building 94 and Building 89 (Removed) | Removed | de minimis |
| | | | FSII System - two ASTs: one 10,000-gallon storage tank for ice inhibitor and one 5,349-gallon tank used for injection | Currently present at Site | de minimis |
| | | | Inactive air tank - vol unknown | Currently present at Site | de minimis |
| | | | 200-gallon diesel fuel AST | Not observed. Status unknown | de minimis |
| | | | 1,000-gallon heating oil Tank | Currently present at Site; in secondary containment | de minimis |
| | | | Empty portable oil fuel tank | Not observed. Status unknown | de minimis |
| | | | fuel pipelines | Remedial activities completed under CAP | CREC |
| Parcel 33 | 3.4 | 12 | Building 26 - demolished prior to 1969; concrete pad of former building previously used as heliport | pad Currently at Site | de minimis |
| | | | Building 29 - demolished before 1949 | demolished | de minimis |
| | | | fuel line | Remedial activities completed under CAP | CREC |
| | | | Northern shoreline (formerly part of IR Site 4) | Remedial activities completed under CAP | CREC |
| Parcel 34 | 42.8 | 8 | Submerged parcel | No additional actoins identified | None |
| Parcel 35 | 91.5 | 9 | Submerged parcel | No additional actoins identified | None |
| Parcel 36 | 26.1 | 7 | None | No additional actoins identified | None |

ACM = asbestos containing material
AST = aboveground storage tank
CAP = Corrective Action Plan
CREC = controlled recognized environmental condition
DVECC = Disease Vector and Ecology Control Center
EBS = Environmental Baseline Survey
ESA = Environmental Site Assessment
HREC = historical recognized environmental condition
IR = Installation Restoration
LBP = lead-based paint
NFA = no further action
REC = recognized environmental condition
ROD = Record of Decision
RWQCB = San Francisco Bay Regional Water Quality Control Board
SEBS = Supplemental Environmental Baseline Survey
UST = underground storage tank

*although former structures are not identified as a REC in the Phase IE SA, the historical use of LBP is possible and may have resulted in shallow lead in soil impacts

**Table 4**
**Summary of Transformers**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel ID | Number of Transformers Identified | Transformer Location | Serial No. | Detected PCB Concentration (ppm) |
|---|---|---|---|---|
| Parcel 5 | 3 | PP81A | 93A032142 | <1 |
| | | | 93A064069 | <1 |
| | | | 93A064070 | <1 |
| Parcel 6 | 12 | PP145 | 83C1889 | <1 |
| | | | HH01920-5 | <1 |
| | | | K254760Y71 | <1 |
| | | PP148 | Q051792-YPG | <1 |
| | | | Q051793-YPG | <1 |
| | | | Q051794-YPG | <1 |
| | | PP83A | 93A050190 | <1 |
| | | | 93A093613 | <1 |
| | | | 93A094471 | <1 |
| | | PP83L | 92A502245 | <1 |
| | | | 92A512121 | <1 |
| | | | 95A512122 | <1 |
| Parcel 7 | 6 | PP142C | 92A502246 | <1 |
| | | | 92A512123 | <1 |
| | | | 93A020361 | <1 |
| | | PP144A | 92A502018 | <1 |
| | | | 92A502019 | <1 |
| | | | 92A502020 | <1 |
| Parcel 8 | 1 | PP86 | 672751 | <1 |
| Parcel 10 | 1 | PP141 | 7090105 | **126*** |
| Parcel 11 | 4 | PP138A | HH01920-8 | <1 |
| | | PP138F | 92A502242 | <1 |
| | | | 92A502243 | <1 |
| | | | 92A502244 | <1 |
| Parcel 14 | 1 | PP173 | 7294663 | 12 |
| Parcel 19 | 1 | PP202 | TA04057 | <1 |
| Parcel 21 | 9 | Main Substation | PVH-0736 | <1 |
| | | | 7800290 | 22 |
| | | | 15015-1 | <1 |
| | | Vault 116 | 6169528 | <1 |
| | | | 6169532 | <1 |
| | | | 6969534 | <1 |
| | | PP76 | 6175829 | 4 |
| | | | 6175831 | 4 |
| | | | 6175834 | 4 |
| Parcel 22 | 3 | PP68A | 91A1072918 | <1 |
| | | | 91A110032 | <1 |
| | | | 91A110903 | <1 |

**Table 4**
**Summary of Transformers**
Former Naval Fuel Depot Point Molate
Richmond, California

| EBS Parcel ID | Number of Transformers Identified | Transformer Location | Serial No. | Detected PCB Concentration (ppm) |
|---|---|---|---|---|
| Parcel 25 | 19** | Building 82 | 76A192514 | <1 |
| | | | 76A192517 | <1 |
| | | | 76A192520 | <1 |
| | | PP206 | 87ZD605-001 | 21 |
| | | PP43 | 75AA16319 | <1 |
| | | PP46&47 | 7092932 | **55*** |
| | | | 7335752 | **73*** |
| | | | 7335754 | **84*** |
| | | | 7335755 | **115*** |
| | | | H0A094221 | <1 |
| Parcel 26 | 3 | PP61 | 91A110249 | <1 |
| | | | 91A110252 | <1 |
| | | | 91A110253 | <1 |
| Parcel 27 | 3 | PP101 | 91A042210 | <1 |
| | | | 91A042214 | <1 |
| | | | 91A042749 | <1 |
| Parcel 28 | 3 | PP104 | 104496 | <1 |
| | | | 76A03710 | <1 |
| | | | 86NL093-002 | <1 |
| Parcel 29 | 1 | PP137A | 83C1887 | <1 |
| Parcel 30 | 3 | Building 87 | 88A152287 | <1 |
| | | | 88A152288 | <1 |
| | | | 88A152289 | <1 |
| Parcel 32 | 13 | Building 119 | 69-OS-A | 41 |
| | | | 69-OS-B | 39 |
| | | | 69-OS-C | 37 |
| | | Building 69/119 | 69997 | <1 |
| | | | 69998 | 5 |
| | | | 69999 | <1 |
| | | Building 70 | 87-51073 | <1 |
| | | PP106 | 67216 | <1 |
| | | | 67217 | <1 |
| | | | 67218 | <1 |
| | | PP108 | 75AA14346 | <1 |
| | | PP113 | 709365 | **63*** |
| | | | 6955676 | **82*** |

ppm = parts per million
* Transformers with PCBs greater than 50 ppm were replaced in 1999
** Samples only collected from 10 of the transformers

Information in this table is summarized from the Environmental Baseline Survey prepared by Morrison Knudsen Corporation and PRC Environmental Management Inc and dated 1996.

**Table 5**
**Former Firing Range Remaining Soil Sampling Results**
Former Naval Fuel Depot Point Molate
Richmond, California

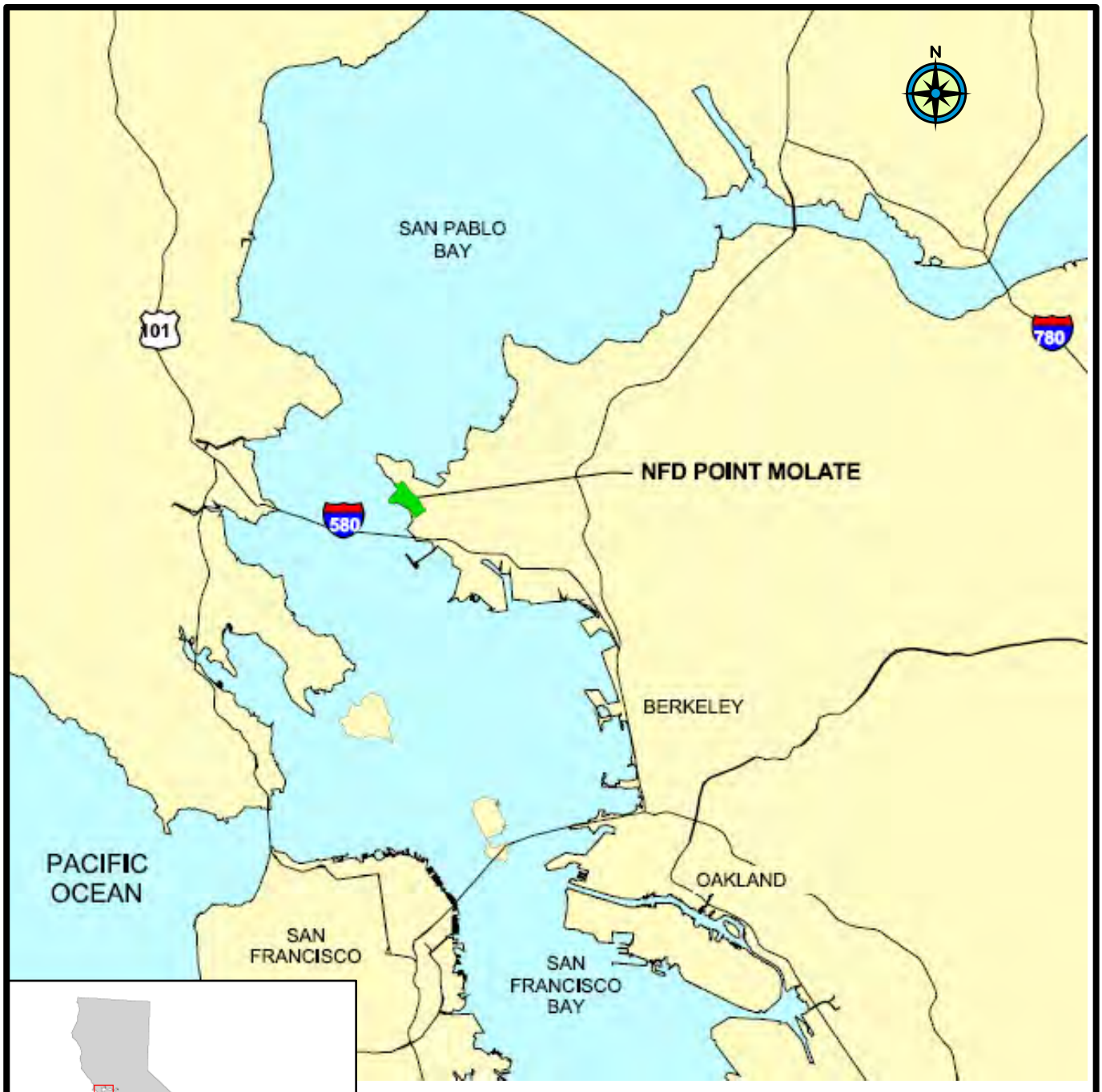
| | Lead |
|---|---|
| *Screening Levels* | |
| *Tier 1 ESL* | *32* |
| *Residential ESL* | *80* |
| *C/I ESL* | *320* |
| *Construction Worker ESL* | *160* |
| *Terrestrial Habitat* | *32* |
| SS14-03 | ***172*** |
| SS14-04 | 527 |
| SS14-06 | ***100*** |
| SS14-06 | ***101*** |
| SS14-07 | ***74.6*** |
| SS14-08 | ***46.8*** |
| SS14-09 | ***83.9*** |
| SS14-12 | ***99.7*** |
| SS14-17 | ***236*** |
| SS14-18 | ***94.5*** |
| SS14-19 | ***42.5*** |
| SS14-19 | ***46.8*** |
| SS14-20 | ***136*** |
| SS14-22 | ***143*** |
| EXCV14-01 | ***42.5*** |
| EXCV14-03 | ***44*** |
| EXCV14-04 | ***104*** |
| EXCV14-05 | ***244*** |

Notes:
Results reported in milligrams per kilogram
Results were reported in the Field
Summary Report by Tetra Tech EM, Inc.
C/I = commercial/industrial
ESL = Enviornmental Screening Level

Screening levels are from the San Francisco Regional Water Quality Control Board Environmental Sreening Levels Rev. 2 prepared in 2019.

**bold font** = sample result exceeds Tier 1 ESL
= sample result exceeds Residential ESL
= sample result exceeds C/I ESL
= sample result exceeds construction worker ESL
*Italic font* = sample results exceeds terrestrial habitat ESL

# FIGURES




| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: Winehaven Legacy LLC | **Site Location Map** |
| terraphase engineering | PROJECT: Phase I Environmental Site Assessment | |
| | PROJECT NUMBER: **0351.001.001** | **FIGURE 1** |

File: K:\GIS\Prj\0351.001_Winehaven_Legacy,LLC\MXDs\(20190819) Site Map.mxd Created by: EM, JT Checked by: RJ

**Legend**

Property Boundary

Aerial imagery source - DigitalGlobe (August 2017)

0 250 500 750 1,000 Feet

1 Inch = 500 Feet

N

**SAFETY FIRST**

terraphase engineering

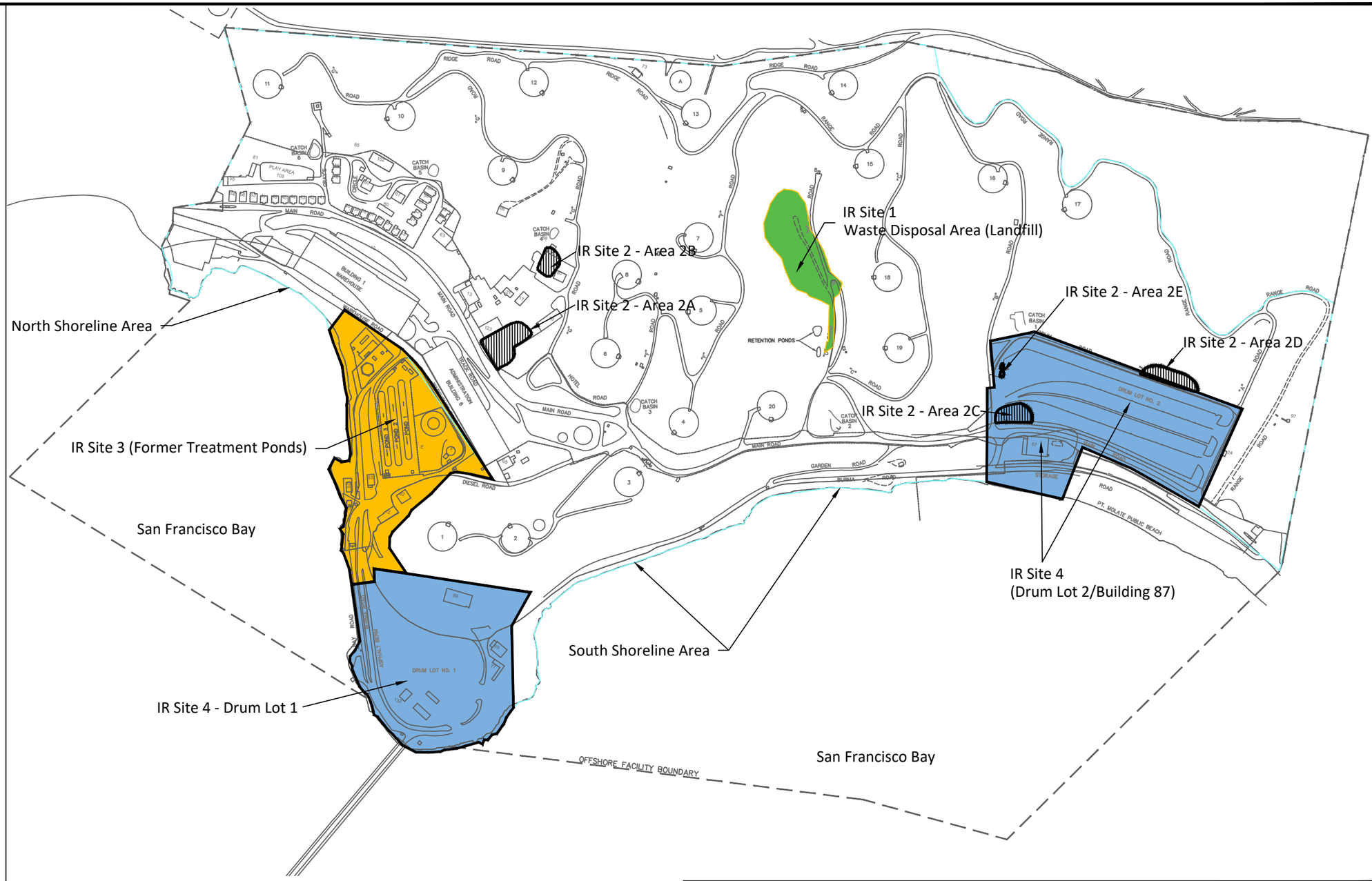
| | |
|---|---|
| CLIENT: | Winehaven Legacy, LLC |
| PROJECT: | Point Molate |
| PROJECT NUMBER: | 0351.001.001 |

**Site Map**

**FIGURE 2**

# LEGEND

- Former Underground Storage Tank
- Property Boundary
- IR Site 1 Boundary
- IR Site 2 Boundary
- IR Site 3 Boundary
- IR Site 4 Boundary




N

0' 250' 500' 1000'

Approximate Scale in Feet

J:\CADD FILES\0351 Winehaven\IR Site Boundary and CRUP areas.dwg Drawn by: WB ; Checked by: ____

| | | |
|---|---|---|
| SAFETY FIRST | CLIENT: Winehaven Legacy LLC | Installation Restoration Sites |
| terraphase engineering | PROJECT: Point Molate<br>Phase I Environmental Site Assessment | |
| | PROJECT NUMBER: 0351.001.001 | Figure 3 |

# LEGEND

- Former Underground Storage Tank
- Property Boundary
- FOSET Property
- 2003 CRUP Property

North Shoreline Area

Fuel Recovery Facility

IR Site 3 (Former Treatment Ponds)

San Francisco Bay

IR Site 1
Waste Disposal Area (Landfill)

IR Site 2
Removal Areas

IR Site 2
Removal Areas

South Shoreline Area

IR Site 4
(Drum Lot 1 and Drum Lot 2/Building 87)

San Francisco Bay

OFFSHORE FACILITY BOUNDARY

N

0' 250' 500' 1000'

Approximate Scale in Feet

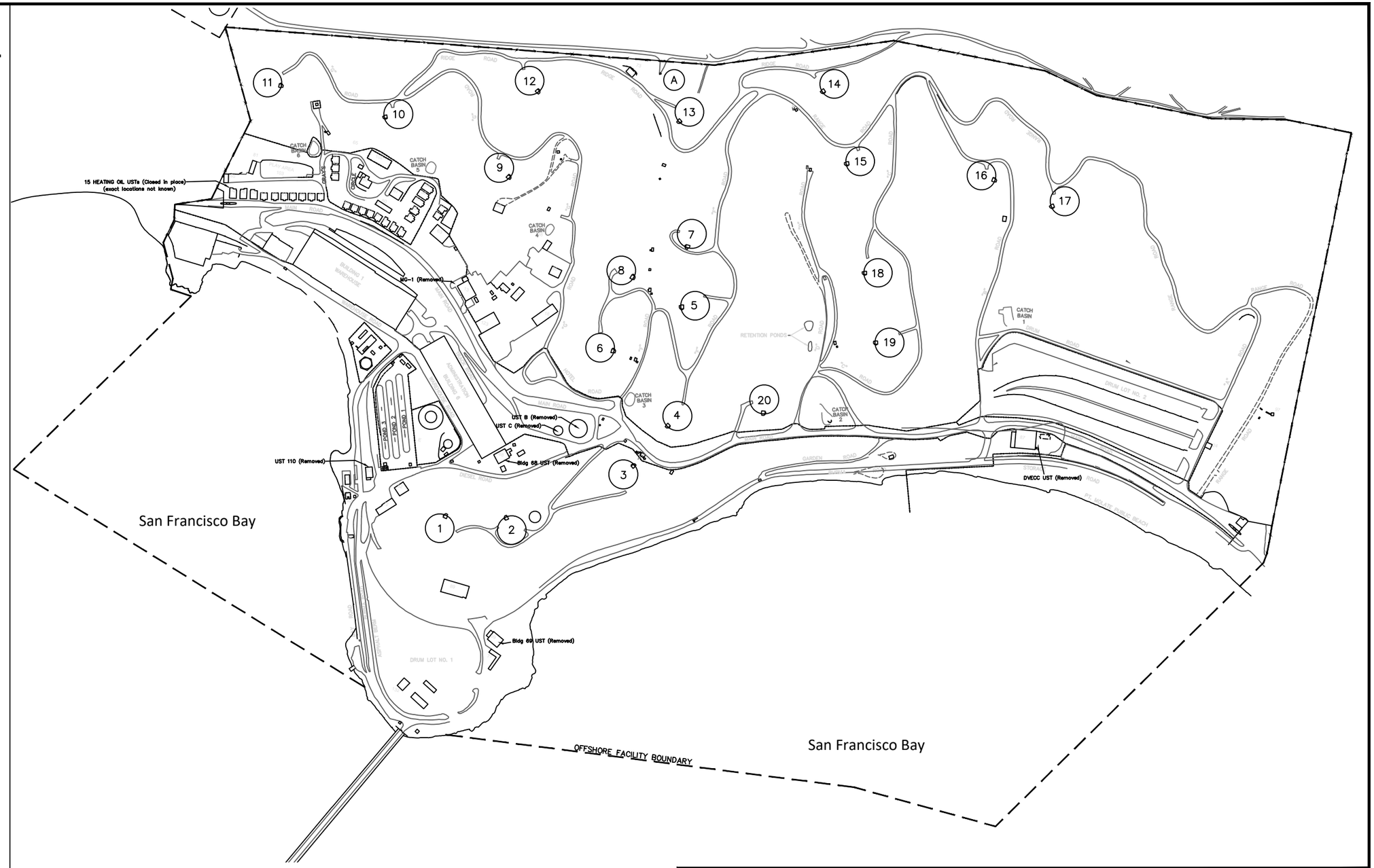
J:\CADD FILES\0351 Winehaven\CRUP areas.dwg Drawn by:_____; Checked by:_____

| | | |
|---|---|---|
| SAFETY FIRST | CLIENT: Winehaven Legacy LLC | Area of Site Subject to the Covenant to Restrict the Use of Property |
| terraphase engineering | PROJECT: Point Molate<br>Phase I Environmental Site Assessment | |
| | PROJECT NUMBER: 0351.001.001 | Figure 4 |

# LEGEND

- 9 — Former Underground Storage Tank
- — — — Property Boundary

Notes:
Building 6 UST was a 13,000-gallon heating oil UST that was closed in-place. The exact location beneath Building 6 is not known.




J:\CADD FILES\0351 Winehaven\UST Locations.dwg Drawn by:____; Checked by:____

| | | |
|---|---|---|
| SAFETY FIRST | CLIENT: Winehaven Legacy LLC | UST Locations |
| terraphase engineering | PROJECT: Point Molate<br>Phase I Environmental Site Assessment | |
| | PROJECT NUMBER: 0351.001.001 | Figure 5 |

Drainage Area 7
Drainage Area 6
Drainage Area 5
Drainage Area 4
Drainage Area 3
Drainage Area 2
Drainage Area 1
Drainage Area 13
Drainage Area 14
Drainage Area 10

MW11-06
MW11-122
MW11-123
MW11-125
MW11-126
MW11-127
MW11-128
MW11-55R
MW11-19
PZ11-76R
MW11-85
MW11-129
MW11-130
MW11-131
MW11-132
MW11-133
MWT08-01
MWT05-02
MWT06-02
MWTC-01R
MWTB-01R
MW03-02
MWT03-02
MWT02-03
MWT13-02
MWT15-02
MWT18-01
MWT19-01
MW02-07
MW01-03
MW31-05
MW31-07
MW31-02
MW31-08
MW31-04
MW29-01
MW31-06
MW31-03
MW30-08
MW10-08
MW10-09
MW10-10
MW10-23
MW10-21
MW10-05
MW10-04
MW10-24
MW10-25

## Legend

| | |
|---|---|
| MW11-06 | Perimeter Well |
| MWT13-122 | IR Site 3 Contingency Trench Well |
| MWT13-133 | IR Site 3 Contingency Trench Upgradient Well |
| MWT13-02 | Open UST Well |
| MW03-02 | Drainage Area Well |
| MW29-03 | Drum Lot 2 Well |
| MW31-08 | Drum Lot 2 Interim Measure Performance Well |
| MW11-02 | Recently Removed from Groundwater Monitoring Well Network |
| MW10-17 | Destroyed Well |
| | Drainage Area Boundary |
| Tank 1 | Former Underground Storage Tank (UST) |

N

0 450 900 1,350 1,800 Feet

1 Inch = 450 Feet

SAFETY FIRST

terraphase engineering

CLIENT: Winehaven Legacy LLC

PROJECT: Phase I Environmental Site Assessment

PROJECT NUMBER: 0351.001.001

**Groundwater Monitoring Well Network**

**FIGURE 6**

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# APPENDIX A
WATER BOARD ORDER

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**
**SAN FRANCISCO BAY REGION**

**ORDER NO. R2-2011-0087**

**UPDATED SITE CLEANUP REQUIREMENTS and**
**RECISSION OF ORDER Nos. 95-235, 97-124 and 97-125**

**CITY OF RICHMOND and**
**UNITED STATES DEPARTMENT OF DEFENSE, DEPARTMENT OF THE NAVY**

**For the:**

**FORMER POINT MOLATE NAVAL FUEL DEPOT, LOCATED AT 1009 WESTERN DRIVE, RICHMOND, CONTRA COSTA COUNTY**

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Regional Water Board) finds that**:**

1) **Site Location:** The Point Molate Naval Fuel Depot (Point Molate NFD site or Facility), is a former U.S. Department of Defense (DoD), Department of the Navy (Navy) fuel storage facility, located on the eastern shore of San Francisco Bay. The Facility is about one-mile north of the Richmond-San Rafael Bridge in the City of Richmond (Figure 1), in Contra Costa County. The Facility consists of approximately 413 acres with topography varying from flat lying, filled tidal marsh along the bay front to steep hills rising to an elevation of more than 500 feet. Approximately 100 acres of the Facility are submerged and extend into San Francisco Bay. The onshore facility is bordered by property owned by the Chevron Corporation. San Francisco Bay borders the western boundary.

2) **Purpose of the Order:** This Order applies to the final cleanup of the entire 413-acre Site. Although many cleanup tasks required pursuant to Order Nos. 95-235, 97-124 and 97-125 have been completed, final cleanup of the Facility is needed. Residual contamination from former Navy operations necessitates further cleanup to ensure protection of human health, water quality, and the environment consistent with the intended reuse and redevelopment plans approved by the City.

3) **Site History**:

   a) The Navy established Point Molate NFD in the early 1940s. Over 40 million gallons of fuel and oil were stored in 20 underground tanks, each having a capacity of approximately two million gallons. Each tank has a diameter of about 100 feet and a depth of 20 feet, and is basically a concrete vault built into the hillside and covered by native soil. The Facility configuration is largely similar to what it has historically been since being completed in 1943.

   b) Several fuel types were stored in the tanks over the years including Navy Special Fuel Oil (NSFO, a black viscous bunker-fuel) diesel fuel, F-76 (marine diesel), JP-5 (jet turbine fuel), and aviation and motor vehicle gasoline. The Facility also operated a sanitary sewer system and a ballast water fuel reclamation/treatment system. The reclamation/treatment system included three former treatment ponds that are described in greater detail in Finding 11b.

The ponds were built on the site of a larger single pond that was used for the disposal of oily wastewater from various facility activities.

c) Point Molate NFD has been inactive since September 30, 1995. Since then, it has undergone closure under the congressionally authorized Base Realignment and Closure (BRAC) Act.

d) Approximately 373 acres of the 413-acre Facility were transferred to the City in September 2003. By letter dated September 1, 2009, the Governor determined that the remaining 40 acres (the Early Transfer Property) were suitable for transfer to the City in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) section 120(h)(3)(C) and deferred the covenant required by CERCLA section 120(h)(3)(A)(ii)(1). This determination allowed the early transfer to occur. As a result all land at the Point Molate NFD is now owned by the City.

**4) Early Transfer Cooperative Agreement:** "Early Transfer" as described in Finding 3(d) above, is defined by CERCLA 120(h)(3)(C), which allows the transfer of federal property before remedial action is completed. The Navy and the City have entered into an Early Transfer Cooperative Agreement (ETCA) for the environmental cleanup of the Early Transfer Property, which provides funding to the City to address most cleanup activities required by this Order (demolition of underground storage tanks are excluded).

**5) Named Dischargers:** The parties responsible for complying with the requirements of this Order are the City and the Navy as described below. Collectively, they are referred to as the Discharger.

a) The City is named Discharger because it is the current owner of the Point Molate NFD site on which there is an ongoing discharge of pollutants, it has knowledge of the discharge or the activities that caused the discharge, and it has the legal ability to control the discharge. The Navy is named Discharger because of substantial evidence that it discharged waste to soil and waters of the State at the Point Molate NFD site during its ownership and operation.

b) In the event that the City and/or its successors-in-interest fail to implement and comply with this Order, the Navy remains liable for compliance with this Order. In addition, the Navy has retained separate liability at the Facility should certain pollutants related to unexploded ordinance and radioactive constituents be discovered. The Regional Water Board retains all of its enforcement authorities should either or both parties fail to comply with the requirements of this Order.

c) The Regional Water Board agrees that in the event of failure by the City to comply with this Order, the Navy may at its discretion, propose and implement a different cleanup plan than that proposed by the City. Such a plan would be subject to the same public and regulatory agency review and approval as the City's cleanup plan submitted pursuant to this Order. Such a plan must be consistent with the land use proposed by the Navy (e.g., commercial and industrial) and must ensure no discharges of waste into waters of the State.

d) The Regional Water Board will give the Navy written notice of the City's failure to comply with this order and will provide the Navy 60 days, without penalty, to negotiate revised due dates for task submittals. The revised due dates and the submittal of a revised cleanup plan may be incorporated into this Order as an administrative action by the Executive Officer.

**6) CERCLA:** The Early Transfer Property is subject to CERCLA due to the existence of hazardous substances but of low concentrations and limited extent. This Order sets forth the

framework and schedule for investigating and completing all necessary response actions. The agreements between the Navy and the City require compliance with the provisions of this and future Regional Water Board orders to achieve completion of all necessary cleanup actions at the Facility to ensure protection of human health, water quality, and the environment.

7) **Sites of Historic Significance:** A 100-acre portion of the Facility that includes the historic Winehaven Buildings and a residential complex has been nominated to the National Register of Historic Places. Any tasks that will directly or indirectly affect this historic district will require compliance with Section 106 of the National Historic Prevention Act of 1966, as amended in 1980, in accordance with the regulations for the protection of historic properties (36 CFR Part 800).

8) **Site Geology:** The Facility is situated on the western side of the Point San Pablo peninsula, projecting into San Francisco Bay. The peninsula is composed of fractured, fine to medium grained sandstones and siltstones of the Jurassic-Cretaceous age (~150 million year old) Franciscan Formation. The Facility is five miles west of the Hayward Fault zone and just east of the projected San Pedro-San Pablo Fault. Bay mud overlays the Franciscan Formation along the shoreline. During the past century, and likely earlier, the bay inter-tidal mud flats have been filled to create most of the low-lying flat areas of the Site.

9) **Hydrogeology:** The Facility is located in the East Bay Plain groundwater basin as designated by the State Department of Water Resources. The Facility is predominantly bedrock overlain by a thin mantle of colluvium (loose deposits of slope debris). Groundwater primarily flows through this mantle and discharges to the Bay. A relatively minor amount of groundwater is transmitted by the bedrock. It is therefore reasonable that pollutant transport, to the extent it has occurred, was through this colluvium mantle. The groundwater at this Facility may not be a potential source of drinking water, primarily due to the lack of production volume.

10) **Offshore Environmental Amenities:** Special areas of significance exist onsite in the offshore areas. The special areas delineated in the Point Molate Environmental Impact Report are the tidal marsh habitat and the eel-grass bed habitat. No remediation work is expected in the offshore areas. However, Prohibition A.4 requires protection of these offshore areas to prevent impacts from the remedial operations.

11) **Areas of Known Contamination:** There are four areas of concern (see Figure 2) that may present a continued source of pollution at Point Molate NFD. All of the following areas are subject to the requirements of this Order.

    a) **Site 1 Landfill** – Waste from the operation of the Point Molate NFD was disposed of in a steep ravine area known as Site 1. The thickness of the waste may extend as much as 50 feet below the present ground surface. Volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), pesticides, jet fuel, diesel, motor oil, and drums have all been documented to be in the landfill waste. Pursuant to a 2005 Record of Decision, the waste was capped and groundwater monitoring is conducted to confirm waste containment. This Order requires the continuance of long-term monitoring and maintenance for the Site 1 landfill in accordance with the 2005 Record of Decision for the landfill.

    b) **Site 3 Treatment Pond Area** – At the time the Navy began operations at the Facility in 1942, Site 3 was a single pond formed by diking off a small embayment just west of the Winehaven Building. The pond was approximately ten to eleven acres in surface area, and was used to capture oily waste from facility operations. In 1973, the pond was reconfigured

into three smaller ponds with its use changed to sewage treatment and stormwater control for the Facility. In 1991, petroleum product as well as oil sheen was observed along the shoreline of the Bay adjacent to these ponds. The petroleum discharge was determined to be coming from the oil and sludge deposited prior to the 1973 conversion.

In 1995, the Navy installed a subsurface groundwater extraction trench approximately 1,000 feet long and 20 feet deep along the shoreline to capture oil and oil-contaminated groundwater coming from the Site 3 ponds as an emergency and interim remedy. The result of that remedy was that the oily discharge to the Bay was stopped. In 2003, the ponds were removed from service and backfilled after removal of contaminated material to a depth of ten feet below ground surface (bgs). High concentrations of petroleum-contaminated material remained below ten feet bgs. The groundwater extraction treatment system has continued to be operated to date. However, since the contamination at the Site remains, a potential threat to water quality exists if the extraction trench fails to function effectively.

Although the groundwater extraction treatment system has generally contained the oily source, a more permanent remedy is needed to abate the long-term threats to water quality. This Order requires the development of Cleanup Criteria for contamination greater than ten feet below ground surface (**Task 1**) and a Final Feasibility Study and Remedial Action Plan (FS/RAP) describing a remedy for Site 3 (**Task 3.a**).

c) **Site 4** – Site 4 consists of Drum Lot 1 and Drum Lot 2 (Figure 2). This Order requires an Interim Remedial Action Plan **(Task 4)** to assess what technologies will best restore impacted groundwater to beneficial uses. This Order also requires a Human Health Risk Assessment and, if interim actions are not successful in achieving acceptable risk reductions, a Feasibility Study and Remedial Action Plan is required for a final remedial action, and a Remedial Action Completion Report (**Task 4 a thru e**).

   i) **Drum Lot 1** – This area is directly south of Site 3. Contamination is generally petroleum related. Groundwater continues to be impacted from historic discharges at this location, although at concentrations that are below the approved cleanup goals for industrial use.

   ii) **Drum Lot 2 –** Drum Lot 2 is located at the southern portion of the Facility (Figure 2). Drums of liquid product were historically stored there. Groundwater monitoring as well as soil and soil-gas data indicate that trichloroethylene (TCE) is present in soils and groundwater. TCE in groundwater beneath Drum Lot 2 was recently measured at 400 ug/L (MW-29-01, October 2007).

d) **UST Area** – Large petroleum underground storage tanks (USTs) at the Facility are generally located on its hillsides. Soil and groundwater contamination detected adjacent to the USTs and former valve boxes are the result of historic spillage and leakage. Free-phase product has been observed at some UST locations; however, those observations are generally limited in extent. As of July 2011, the Regional Water Board had approved closure for 9 out of 20 USTs (USTs 1, 7, 9, 10, 11, 14, 16, 17, and 20). The UST structures remain. The ETCA contains provisions and funding for the City to complete the regulatory closure of all the remaining USTs. Monitoring and maintenance of the remaining tanks will continue into the future. This Order requires a **UST Management Plan** (**Task 5**) to manage the remaining USTs, and to achieve final environmental closure of those tanks.

**12) Risk Assessments:**

a) **Ecological Risk Assessment:** The Navy submitted a Final Offshore Ecological Risk Assessment Report, dated November 24, 1999, which evaluates soil and sediment chemical data along the shoreline down-gradient of Site 3. Results from this report are incorporated into the Fuel Product Action Levels (FPALs) discussed in Finding 13 below.

b) **Human Health Risk Assessment:** The Navy submitted a Human Health and Environmental Risk Assessment Report for Site 4 dated March 2003. Results from this report are incorporated into the FPALs discussed in Finding 13 below. However, the Discharger shall submit a revised Human Health Risk Assessment for Site 4.

**13) Cleanup Levels:** The Navy submitted a Fuel Product Action Level report, dated August 31, 2001 (the FPAL report), which specifies soil and groundwater pollutant concentrations considered safe based on commercial and industrial land uses. The FPAL is for soil contamination to ten feet below the ground surface (less than 10ft bgs) and incorporates findings from Ecological Risk Assessment and Human Health Risk Assessment studies for this site. The FPAL report establishes fuel product cleanup levels based upon the depth of the pollutants below ground surface and its distance away from the Bay for various land use scenarios. However, the FPAL report does not address cleanup levels below ten feet, or >10ft bgs. This Order requires the development of **Soil Cleanup Criteria** (**Task 1**) for all depths greater than ten feet below ground surface, protective of human health and the environment for different land use scenarios.

**14) Recordation of Deed Restrictions:** A land use control document (LUC) has been developed and recorded for the entire Site. The LUC in this situation is known as a covenant to restrict use, or CRUP, which was recorded in Contra Costa County on March 29, 2010. The CRUP protects the public during the completion of Facility remediation activities and provides for the necessary access to complete those activities. In some cases, the CRUP may need to be amended as appropriate, depending on the scope of each proposed cleanup action for areas of the Facility that do not meet unrestricted use standards. This Order requires the Discharger to propose **Amended Land Use Controls** (**Task 8**) for the Regional Water Board's Executive Officer's review and approval after an acceptable remedy has been successfully completed pursuant to this Order.

**15) Basis for Cleanup Standard:**

a) State Water Resources Control Board (State Water Board) Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," applies to this discharge and requires attainment of background levels of water quality, or the highest level of water quality which is reasonable if background levels of water quality cannot be restored. Cleanup levels other than background must be consistent with the maximum benefit to the people of the State, not unreasonably affect present and anticipated beneficial uses of such water, and not result in exceedance of applicable water quality objectives. This Order and its requirements are consistent with Resolution No. 68-16.

b) State Water Board Resolution No. 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges under Water Code Section 13304," applies to this discharge. This Order and its requirements are consistent with the provisions of State Board Resolution No. 92-49, as amended.

c) **Beneficial Uses:** The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) is the Regional Water Board's master water quality control planning document. It

designates beneficial uses and water quality objectives for waters of the State, including surface waters and groundwater. It also includes programs of implementation to achieve water quality objectives. The Basin Plan was duly adopted by the Regional Water Board and approved by the State Water Board, Office of Administrative Law and the U.S. EPA, where required. The Basin Plan designates the following potential beneficial uses of groundwater underlying and adjacent to the Facility (San Francisco Bay):

a. Commercial and sport fishing;
b. Estuarine habitat;
c. Industrial service supply;
d. Fish migration;
e. Navigation;
f. Industrial process supply;
g. Preservation of rare and endangered species;
h. Water contact recreation;
i. Non-contact water recreation;
j. Shellfish harvesting;
k. Fish spawning; and
l. Wildlife habitat.

16) **Reuse or Disposal of Extracted Groundwater:** Resolution No. 88-160, adopted by the Regional Water Board, allows discharges of extracted and treated groundwater from site cleanups to surface waters only if it has been demonstrated that neither reclamation nor discharge to the sanitary sewer is technically and economically feasible.

17) **Basis for 13304 Order:** California Water Code (CWC) section 13304 authorizes the Regional Water Board to issue orders requiring a discharger to cleanup and abate waste where the discharger has caused or permitted waste to be discharged or deposited where it is or probably will be discharged into waters of the State and creates or threatens to create a condition of pollution or nuisance.

18) **Cost Recovery:** Pursuant to CWC section 13304, the Discharger is hereby notified that the Regional Water Board is entitled to, and may seek reimbursement for all reasonable costs actually incurred by the Regional Water Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Order.

19) **Board Order No. R2-2008-0095:** The Regional Water Board previously adopted a final cleanup order (Order No. R2-2008-0095) for the entire Facility on November 12, 2008; however, that order was vacated and remanded by the State Water Board on September 15, 2009, due to an erroneous finding under the California Environmental Quality Act (CEQA). Specifically, the State Water Board held that the Regional Water Board should not have used a categorical exemption from CEQA when adopting Order No. R2-2008-0095, since the Facility is on what is commonly referred to as the "Cortese List". The Cortese List is a statewide list of sites involving the discharge of hazardous materials. CEQA prohibits the use of categorical exemptions for projects that take place on sites included on the Cortese List.

    The State Water Board remanded the matter to the Regional Water Board to comply with CEQA. Since the remand, the City prepared and certified an environmental impact report (EIR) for redevelopment of the Site, including cleanup needed for redevelopment. See Finding 20 below. The Regional Water Board, as a responsible agency, is therefore relying on that EIR to comply with CEQA.

20) **CEQA:** The City of Richmond, as the lead agency under CEQA, has prepared and certified an Environmental Impact Report (EIR) on March 8, 2011, for the redevelopment of the Point Molate NFD, including cleanup required for protection of human health and the environment redevelopment. The EIR evaluated the environmental impacts associated with cleanup and

redevelopment of the Point Molate NFD site under various alternative development scenarios. The Regional Water Board has considered the EIR and finds that with respect to those environmental impacts associated with cleanup of the Point Molate NFD that are within the Regional Water Board's jurisdiction, they have been mitigated to less than significant levels.

21) **Notification:** The Regional Water Board has notified the Discharger and all interested agencies and persons of its intent under CWC section 13304 to prescribe site cleanup requirements for the Point Molate NFD and has provided them with the opportunity to submit their written comments.

22) **Public Hearing:** The Regional Water Board in a public meeting heard and considered all comments pertaining to this Order.

**IT IS HEREBY ORDERED,** pursuant to CWC section 13304, that the Discharger (or its agents, successors, or assigns) shall cleanup and abate the effects described in the above findings as follows:

## A: PROHIBITIONS

1. The discharge of wastes and/or non-hazardous or hazardous substances in a manner which will degrade, or threaten to degrade, water quality or adversely affect, or threaten to adversely affect, the beneficial uses of the waters of the State is prohibited.

2. Further migration of wastes or hazardous substances through subsurface transport to waters of the State is prohibited.

3. Activities associated with the subsurface investigation and cleanup that will cause adverse migration of wastes or hazardous substances are prohibited.

4. The tidal marsh habitat and wetland habitats onsite shall be completely avoided unless encroachment on these areas is required to implement Facility remediation work and resultant impacts to the affected habitat are mitigated through a plan approved by the Executive Officer. A setback of 50 feet shall be established around the tidal marsh and any wetland area as a means of preventing any unintended impacts to it from the remediation.

5. The Site's offshore eel-grass habitat shall be completely avoided during any remedial work to the maximum extent practicable.

## B: TASKS and COMPLIANCE DATES

### 1. SOIL CLEANUP GOALS
### COMPLIANCE DATE: February 13, 2012

The Discharger shall propose soil cleanup goals, acceptable to the Executive Officer, for contaminated soils. The cleanup goals developed to date by the Navy for the Point Molate NFD (FPALs), describe goals for pollutants situated less than 10 feet below ground surface only. The cleanup goals for this task shall include petroleum hydrocarbons as well as other chemicals of concern and shall include any reasonably expected decomposition byproducts, for all depths greater than 10 feet below ground surface.

**2. SOIL and GROUNDWATER MANAGEMENT PLAN**
**COMPLIANCE DATE: March 15, 2012**

The Discharger shall propose a Soil and Groundwater Management Plan for the Facility, acceptable to the Executive Officer, identifying how soils and affected groundwater will be managed for any phase of cleanup activities at the Facility, including initial cleanup as well as cleanups related to discoveries during any future development of the Facility.

The plan must propose how soil and groundwater will be sampled and analyzed during all phases of remediation and development, and how test results will be used to protect Facility workers and future occupants and visitors from residual pollutants. The plan shall describe the protocol to be followed for all sampling, field measurements, analytical techniques, and the sequence and methods of any proposed remediation.

The plan shall be consistent with and incorporate all applicable mitigation measures set forth in the certified EIR. The plan shall address equipment and the schedule of activities, proposed measures to limit fugitive emissions from site remediation and trucking activities, general soil removal and backfilling specifications, dewatering and discharge activities during the remedy process, and the proposed groundwater treatment activities to protect surrounding groundwater and surface water resources.

**3. SITE 3**

**a. FEASIBILITY STUDY and REMEDIAL ACTION PLAN (FS/RAP)**
**COMPLIANCE DATE: May 4, 2012**

The Discharger shall propose a final FS/RAP, acceptable to the Executive Officer, to clean up Site 3. The final Site 3 FS/RAP shall incorporate the applicable cleanup goals for the Facility and shall include a time schedule for sub-actions to attain the final cleanup.

**b. REMEDIAL ACTION COMPLETION REPORT**
**COMPLIANCE DATE: February 3, 2014**

Upon implementation of the Final FS/RAP, the Discharger shall prepare a Remedial Action Completion Report for Site 3, acceptable to the Executive Officer. The Remedial Action Report shall include LUCs as needed. The report shall identify the location of all remedial actions and describe the volume of soil excavated, describe the specifics of the disposal of that material, and present all test data generated during the remediation process and how the remediation activities met or did not meet remediation goals.

**4. SITE 4**

**a. INTERIM REMEDIAL ACTION WORK PLAN**
**COMPLIANCE DATE: April 3, 2012**

The Discharger shall prepare an interim remedial action work plan, acceptable to the Executive Officer, as an initial remedy for Site 4 (described in Finding 11.c.i and Finding 11.c.ii.).

**b. INTERIM REMEDIAL ACTION COMPLETION REPORT**
**COMPLIANCE DATE: November 2, 2012**

The Discharger shall conduct the interim action in a manner acceptable to the Executive Officer and provide a completion report by the compliance date. This shall be followed by

eight (8) consecutive quarterly rounds of groundwater monitoring to assess the interim remedy chosen according to the accepted work plan described in Task 4.a above for Site 4.

**c. HUMAN HEALTH RISK ASSESSMENT**
**COMPLIANCE DATE: November 4, 2013**

The Discharger shall prepare a human health risk assessment for Site 4 to be used in determining if additional remedial measures are necessary to mitigate risks at the Site. If additional remedial measures are required for the expected land use, a Feasibility Study and Remedial Action Plan will be developed (Site 4 FS/RAP, Task 4.d), which shall include a time schedule for sub-actions to attain the final cleanup and shall be submitted to the Executive Officer for approval.

**d. FEASIBILITY STUDY and REMEDIAL ACTION PLAN**
**COMPLIANCE DATE: February 3, 2014**

If Interim Actions implemented per Task 4.b above are not successful in achieving the acceptable risk reductions per Task 4.c, the Discharger shall propose a final FS/RAP, acceptable to the Executive Officer, to cleanup Site 4. The final FS/RAP shall incorporate cleanup goals for the Facility and shall include a time schedule for sub-actions to attain the final cleanup.

**e. REMEDIAL ACTION COMPLETION REPORT**
**COMPLIANCE DATE: February 3, 2015**

Upon implementation of the final FS/RAP described in Task 4.d, the Discharger shall prepare a Remedial Action Completion Report for Site 4, acceptable to the Executive Officer. The report shall identify the location of all remedial actions and describe the volume of soil excavated, describe the specifics of the disposal of that material, and present all test data generated during the remediation process and how the remediation activities met or did not meet remediation goals.

If additional remediation is required but an acceptable LUC provision can be implemented to the satisfaction of the Executive Officer, the existing LUCs shall be amended per Task 8 below.

**5. UST MANAGEMENT PLAN**
**COMPLIANCE DATE: March 4, 2013**

The Discharger shall propose a management plan and schedule, acceptable to the Executive Officer, to close the remaining USTs at the Site. Environmental case closure has been approved for nine UST cases. Eleven UST cases remain open at the time of this Order because of elevated concentrations of hydrocarbons associated with the USTs. The intent of the UST Management Plan is to document the extent of contamination remaining at the eleven USTs and determine if active remediation is needed or to determine if monitored natural attenuation is adequate to achieve cleanup goals in a reasonable time frame.

**6. UST REMOVAL PLAN**
**COMPLIANCE DATE: 90 days prior to UST demolition**

If any UST will be demolished during the course of redevelopment, the Discharger shall prepare a UST Removal Plan, acceptable to the Executive Officer, describing the tank demolition. The plan shall be consistent with the UST Management Plan and the Soil and

Groundwater Management Plan required by this Order and shall incorporate all the relevant mitigation measures set forth in the certified EIR and the LUCs recorded for this Site.

**7. UST STATUS REPORT**
**COMPLIANCE DATE: June 3, 2013**

Quarterly UST status reports shall outline the progress of UST closure activities undertaken pursuant to the plan developed for Task 5. Status reports shall include the results of monitoring and closure activities undertaken during the prior quarter, and include any proposed activities for the upcoming quarter.

**8. AMENDED LAND USE CONTROLS**
**COMPLIANCE DATE: Due at the time Environmental Closure is requested by the Discharger**

The Discharger shall submit amended LUCs, acceptable to the Executive Officer, for any area of the Facility that does not meet "unrestricted use standards" after an acceptable cleanup has been implemented. In areas with existing LUCs, the Discharger may submit amended LUCs to reflect the completed cleanup or may propose eliminating land use restrictions, as appropriate, after cleanup activities are completed.

**9. REMEDIATION STATUS REPORTS**
**COMPLIANCE DATE: Monthly beginning 30 days after the start of the remediation activities and ceasing 30 days after completion of all field activities related to this Order**

The Discharger shall submit a report to the Regional Water Board, 30 days prior to the start of any onsite remediation activities, and then on a monthly basis beginning 30 days after the start of the remediation activities, outlining the onsite remediation activities accomplished during the past month and those planned for the following month. The first monthly report at the beginning of each quarter shall include monitoring and test results and any conclusions or proposed changes to the remediation process based on those results. If any changes to the remediation are proposed during any monthly report, applicable supporting monitoring or test data will be submitted at that time. The status report shall also verify that the Prohibitions in Section A, stipulated above, have been adhered to. Should any of those prohibitions be trespassed, the report shall propose a recommendation acceptable to the Executive Officer to correct the trespass.

**10. DISCOVERIES DURING FACILITY REDEVELOPMENT**
**COMPLIANCE DATE: 60 days from initial discovery**

After the initial remedies have been implemented as ordered by the above tasks, and Facility redevelopment begins, discoveries of otherwise previously unknown pollution that exceeds the Facility's Cleanup Goals shall be reported to the Executive Officer within 48 hours of its discovery. A cleanup shall be promptly implemented according to **Task 2, Soil and Groundwater Management Plan**. The initial reporting shall be followed up by a Cleanup/Investigations Report submitted to the Regional Water Board and acceptable to the Executive Officer, documenting cleanup actions and residual contaminant concentrations achieved, describing the situation and its status, and any further actions needing resolution.

**11. SITE 1 ROD**

This Order requires the continuance of long-term monitoring and maintenance for the Site 1 landfill in accordance with the June 2005 Record of Decision (ROD) for the landfill and any amendments to that ROD.

**12. CONSTRUCTION STORM WATER GENERAL PERMIT**
**COMPLIANCE DATE: Prior to commencement of any field work**

The Discharger shall comply with the State Water Board's Construction General Permit (CGP), Order No. 2009-0009-DWQ, prior to commencement of any cleanup activity that will include disturbing greater than one acre of land. Proof of coverage under the CGP may consists of a Notice of Intent (NOI) after being assigned a WDID number for that NOI. As required by the CGP, a stormwater pollution prevention plan must be implemented and maintained at the Facility and shall be submitted to the Regional Water Board in digital format (preferably PDF).

## C. GENERAL PROVISIONS

1. **No Nuisance:** The storage, handling, treatment, or disposal of polluted soil or groundwater must not create a nuisance as defined in CWC section 13050(m).
2. **Good Operation and Maintenance (O&M):** The Discharger must maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the requirements of this Order.
3. **Cost Recovery:** The Discharger is liable, pursuant to CWC section 13304, to the Regional Water Board for all reasonable costs actually incurred by the Board to investigate unauthorized discharges of waste and to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action, required by this Order. If the Facility addressed by the Order is enrolled in a State Water Board-managed reimbursement program, reimbursement shall be made pursuant to this Order and according to the procedures established in that program. Any disputes raised by the Discharger over reimbursement amounts or methods used in that program shall be consistent with the dispute resolution procedures for that program.
4. **Access to Facility and Facility Records**: In accordance with CWC section 13267(c), the Discharger shall permit the Regional Water Board or its authorized representative:
    a. Entry upon premises in which any pollution source exists, or may potentially exist, or in which any required records are kept, which are relevant to this Order.
    b. Access to copy any records required by this Order.
    c. Inspection of any monitoring or remediation facilities installed in response to this Order.
    d. Sampling of any groundwater or soil that is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the Discharger.
5. **Contractor / Consultant Qualifications**: All technical documents that make or present geologic or engineering interpretations must be signed by and stamped with the seal of a California registered geologist, a California certified engineering geologist, or a California registered civil engineer.
6. **Lab Qualifications:** All samples shall be analyzed by State-certified laboratories or laboratories accepted by the Regional Water Board using approved U.S. EPA methods for

the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control records for Regional Water Board review. This provision does not apply to analyses that can only reasonably be performed onsite (e.g., temperature).

7. **Document Distribution: Document Distribution**: Copies of all correspondence, technical reports, and other documents pertaining to compliance with this Order shall be provided to the following agencies:

   a. City of Richmond - Public Library
   b. County of Contra Costa Department of Environmental Health

   The Executive Officer may modify this distribution as needed.

8. **Reporting of Changed Owner or Operator:** The Discharger shall file a technical report on any changes in Site occupancy or ownership associated with the Facility as described in this Order.

9. **Compliance Delays:** If the Discharger is delayed, interrupted or prevented from meeting one or more of the completion dates specified in this Order, the Discharger shall promptly notify the Executive Officer. If, for any reason, the Discharger is unable to perform any activity or submit any document within the time required under this Order, the Discharger may make a written request for a specified extension of time. The extension request shall include a justification for the delay, and shall be submitted in advance of the date on which the activity is to be performed or the document is due.

10. **Electronic Reporting Format:** All reports submitted pursuant to this Order must be submitted as both hard copies and electronic files in PDF format. The Regional Water Board has implemented a document database that is intended to reduce the need for storing printed reports and to streamline the public review process. All electronic files, whether in PDF or spreadsheet format must be submitted via email (only if the file size is under 1MB), or on a CD. Email notification should be provided to Regional Water Board staff whenever a file is uploaded to Geotracker (**Provision C.11**).

11. **Geotracker:** The State Water Board adopted regulations requiring electronic report and data submittal to the State's Geotracker database (Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3890-3895 of the CCR). The Discharger is responsible for submitting the following via Geotracker:

    a. All chemical analytical results for soil, water, and vapor samples;
    b. The latitude and longitude of any permanent sampling point for which data is reported, accurate to within 1 meter and referenced to a minimum two reference points from the California Spatial Reference System, if available;
    c. The surveyed elevation relative to a geodetic datum of any permanent sampling point;
    d. The elevation of groundwater in any permanent monitoring well relative to the surveyed elevations;
    e. A site map or maps showing the location of all sampling points;
    f. The depth of the screened interval and the length of screened interval for any permanent monitoring well;
    g. PDF copies of boring logs; and
    h. PDF copies of all reports, work plan and other documents (the document, in its entirety [signature pages, text, figures, tables, etc.] must be saved to a single PDF file) including

the signed transmittal letter and professional certification by a California registered civil engineer or a registered geologist.

12. **Reporting of Hazardous Substance Release:** If, on or after the effective date of this Order, any hazardous substance is discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, the Discharger shall report such discharge to the Regional Water Board by calling (510) 622-2369 during regular office hours (Monday through Friday, 8:00 to 5:00).
    a. A written report must be filed with the Regional Water Board within five working days. The report must describe: the nature of the hazardous substance, estimated quantity involved, duration of incident, cause of release, estimated size of affected area, nature of effect, corrective actions taken or planned, schedule of corrective actions planned, and persons/agencies notified.
    b. This reporting requirement is in addition to reporting to the California Emergency Management Agency, required pursuant to the State Health and Safety Code Section 25507.
13. **Periodic Order Review:** The Regional Water Board will review this Order periodically and may revise it when necessary. The Discharger may individually or jointly request revisions, and upon review, the Executive Officer may recommend that the Regional Water Board revise these requirements.
14. **Responsible Discharger:** Within 60 days after being notified by the Executive Officer that any one named discharger has failed to comply with this Order, the remaining discharger(s) shall be responsible to comply with this Order. The subsequent responsibility for compliance is described in Finding 5 of this Order.
15. **Rescission of Existing Orders:** This Order supersedes and rescinds Order Nos. 95-235, 97-124 and 97-125 except for enforcement purposes.

I, Bruce H. Wolfe, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on **December 14, 2011**.

_____
Bruce H. Wolfe
Executive Officer

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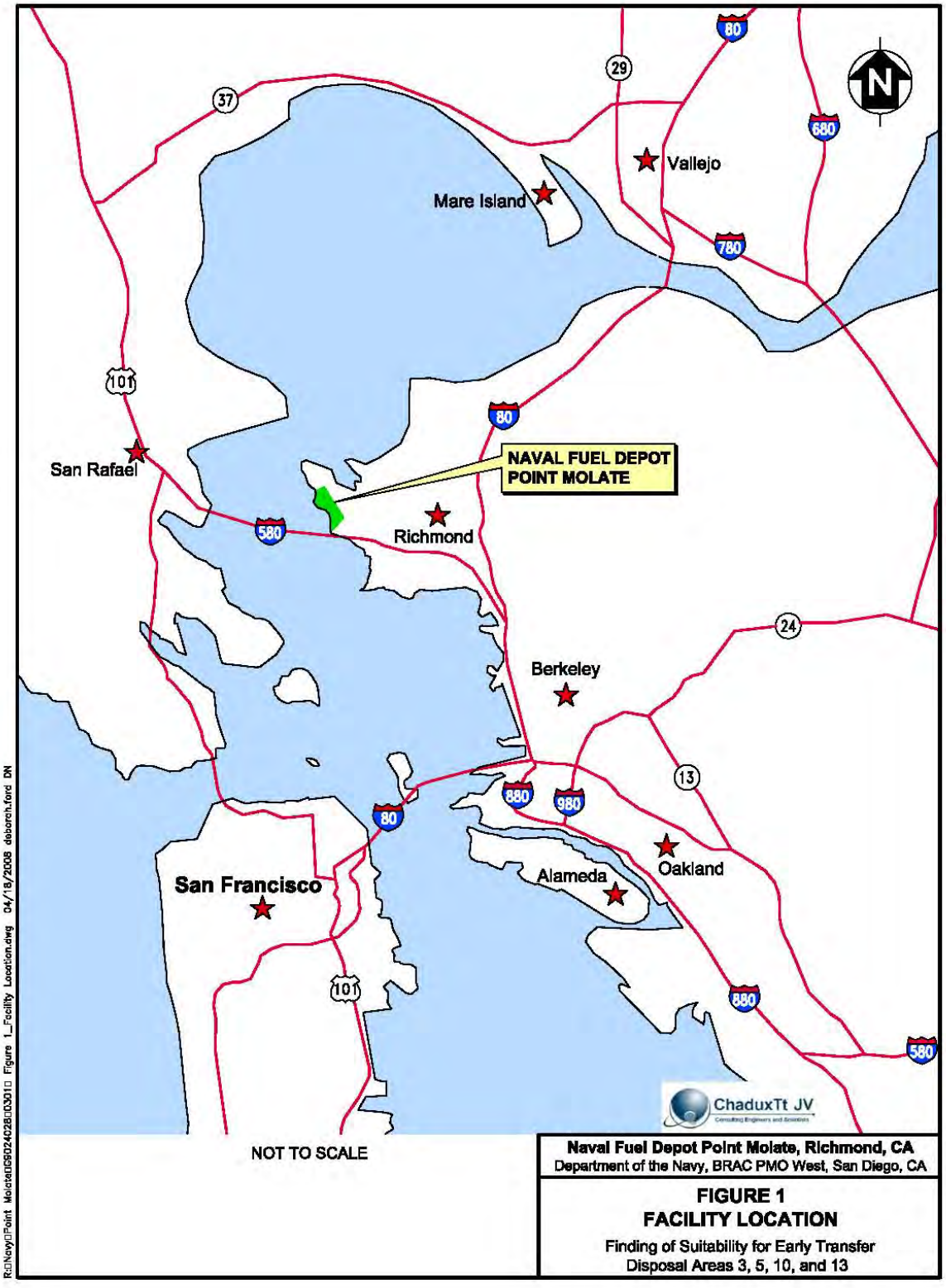
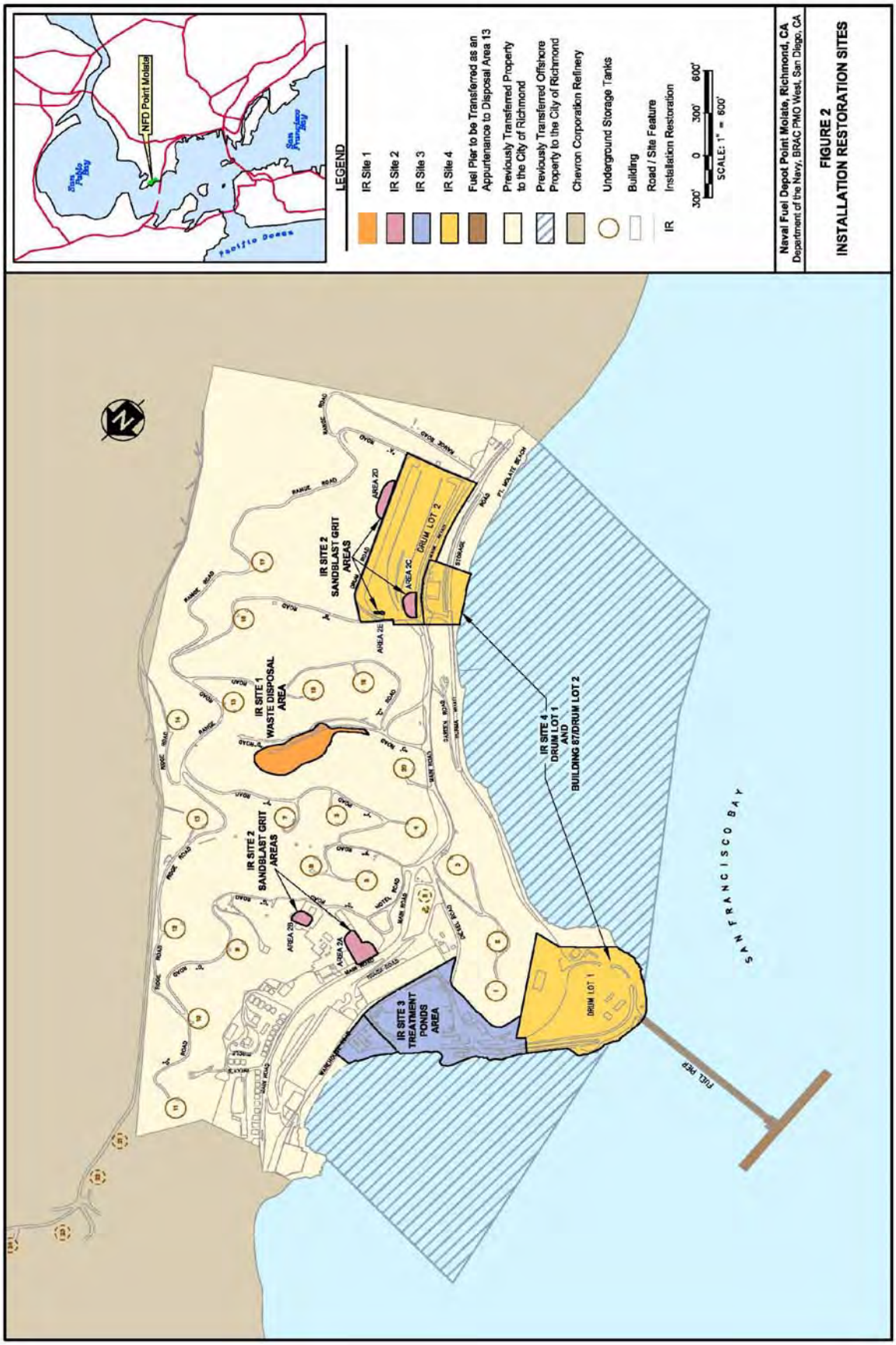
FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS ORDER MAY SUBJECT YOU TO ENFORCEMENT ACTION, INCLUDING BUT NOT LIMITED TO: IMPOSITION OF ADMINISTRATIVE CIVIL LIABILITY UNDER CALIFORNIA WATER CODE SECTIONS 13268 OR 13350, OR REFERRAL TO THE ATTORNEY GENERAL FOR INJUNCTIVE RELIEF OR CIVIL OR CRIMINAL LIABILITY
==========

Attachments:
Figure 1: Location/Facility Map
Figure 2: Areas of Concern/Facility Map


80
29
37
N
680
Vallejo
Mare Island
780
101
80
NAVAL FUEL DEPOT
POINT MOLATE
San Rafael
580
Richmond
24
Berkeley
13
880
980
80
Oakland
Alameda
San Francisco
101
880
580
ChaduxTt JV
NOT TO SCALE
Naval Fuel Depot Point Molate, Richmond, CA
Department of the Navy, BRAC PMO West, San Diego, CA
FIGURE 1
FACILITY LOCATION
Finding of Suitability for Early Transfer
Disposal Areas 3, 5, 10, and 13
R:\Navy\Point Molate\D9024028\D3010 Figure 1_Facility Location.dwg 04/18/2008 deborah.ford DN


NFD Point Molate
San Pablo Bay
San Francisco Bay
Pacific Ocean
LEGEND
IR Site 1
IR Site 2
IR Site 3
IR Site 4
Fuel Pier to be Transferred as an Appurtenance to Disposal Area 13
Previously Transferred Property to the City of Richmond
Previously Transferred Offshore Property to the City of Richmond
Chevron Corporation Refinery
Underground Storage Tanks
Building
Road / Site Feature
IR Installation Restoration
300' 0 300' 600'
SCALE: 1" = 600'
Naval Fuel Depot Point Molate, Richmond, CA
Department of the Navy, BRAC PMO West, San Diego, CA
FIGURE 2
INSTALLATION RESTORATION SITES
IR SITE 2 SANDBLAST GRIT AREAS
AREA 2D
AREA 2C
AREA 2E
DRUM LOT 2
IR SITE 1 WASTE DISPOSAL AREA
IR SITE 4 DRUM LOT 1 AND BUILDING 87/DRUM LOT 2
IR SITE 2 SANDBLAST GRIT AREAS
AREA 2B
AREA 2A
IR SITE 3 TREATMENT PONDS AREA
DRUM LOT 1
FUEL PIER
SAN FRANCISCO BAY

# APPENDIX B
QUESTIONNAIRE

terraphase engineering

**USER QUESTIONNAIRE**

This questionnaire is provided to the client pursuant to guidance in ASTM E1527-13. In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional. Terraphase requests that this information be provided at the start of this project to ensure the information can be accounted for and the project can be completed on schedule and budget. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

**(1.) Environmental cleanup liens that are filed or recorded against the Site (40 CFR 312.25).**

Are you aware of any environmental cleanup liens against the Site that are filed or recorded under federal, tribal, state or local law?

NO

**(2.) Activity and land use limitations (AULs) that are in place on the Site or that have been filed or recorded in a registry (40 CFR 312.26).**

Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

**(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**

As the user of this Phase I ESA do you have any specialized knowledge or experience related to the Site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the Site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

**(4.) Relationship of the purchase price to the fair market value of the Site if it were not contaminated (40 CFR 312.29).**

Does the purchase price being paid for this Site reasonably reflect the fair market value of the Site? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the Site?

Yes, we have estimated a reasonable cost to remove remaining UST's on the site. Any increase in cost will be reflected in the purchase price.

terraphase engineering

**USER QUESTIONNAIRE**

**(5.) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).** Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user:

(a.) Do you know the past uses of the Site?

(b.) Do you know of specific chemicals that are present or once were present at the Site?

(c.) Do you know of spills or other chemical releases that have taken place at the Site?

(d.) Do you know of any environmental cleanups that have taken place at the Site?

a.) Yes, Navy Fuel Depot and winery b.) no c.) no
d.) yes, we know some UST's have been removed.

**(6.) The degree of obviousness of the presence of likely presence of contamination at the Site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

As the user of this ESA, based on your knowledge and experience related to the Site are there any obvious indicators that point to the presence or likely presence of contamination at the Site?

Yes, historic use as a navy fuel depot. There are some remaining UST's that need to be removed.

**(7.) Please provide the reason this Phase I ESA is required.** to be a prospective bonified purchaser

**NOTE 1:** For the purposes of this Phase I ESA, the "user" is defined as follows: *The user is the party seeking to use ASTM E1527-13 to complete an environmental site assessment of the site. A user may include, without limitation, a potential purchaser of site, a potential tenant of site, an owner of site, a lender, or a site manager. The user has specific obligations for completing a successful application of this practice as outlined in EPA's All Appropriate Inquiry Rule.*

**NOTE 2:** In the case of a "yes" answer to any of the above questions, Terraphase requests the client provide additional elaboration or documentation where applicable to fully explain the answer.

Name of Person Completing Form: Nick Pappas
Signature of Person Completing Form: N Pappas
Date of Form Completion: 8-14-19

## APPENDIX C
COVENANT TO RESTRICT THE USE OF PROPERTY

RECORDING REQUESTED BY
FIRST AMERICAN TITLE CO.

RECORDING REQUESTED BY:
City of Richmond
450 Civic Center Plaza
P.O. Box 4046
Richmond, CA 94804-1630
Attention: Bill Lindsay, City Manager

WHEN RECORDED, MAIL TO:

California Regional Water Quality Control Board, San Francisco Bay Region
1515 Clay Street, 14th Floor
Oakland, California 94612
Attention: Executive Officer

CONTRA COSTA Co Recorder Office
STEPHEN L. WEIR, Clerk-Recorder
DOC- 2010-0060368-00
Acct 6-First American Title
Monday, MAR 29, 2010 08:00:00
FRE $0.00
Ttl Pd $0.00 Nbr-0000430756
MNH/R2/1-86

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

COVENANT TO RESTRICT USE OF PROPERTY

ENVIRONMENTAL RESTRICTION

(Re: Former Naval Fuel Depot Point Molate - Richmond, CA)

CALIFORNIA REGIONAL WATER
APR 27 2010
QUALITY CONTROL BOARD

This Covenant and Agreement ("Covenant") is made by and between the City of Richmond ("City" or "Covenantor"), the current owner of certain portions of the Former Naval Fuel Depot Point Molate (NFD Point Molate), situated in the City of Richmond, County of Contra Costa, State of California, described in Exhibit A, which is attached and incorporated herein by this reference ("Property"), and the California Regional Water Quality Control Board, San Francisco Bay Region ("RWQCB"). The RWQCB has determined that this Covenant is reasonably necessary to protect present and future

human health and safety and the environment as a result of the presence on the Property of hazardous materials, as defined in California Health & Safety Code ("H&SC") Section 25260, and enters into this Covenant in accordance with California Civil Code Section 1471.

A portion of NFD Point Molate (designated as Disposal Areas 1, 2, 4, 6, 7, 8, 9, 11, and 12, collectively referred to as the "FOST Property") was transferred pursuant to a 2003 Finding of Suitability for Transfer. A portion of the FOST Property (designated as Disposal Areas 1, 2, 6, 11, and 12, or the "2003 CRUP Property") was subject to a Covenant to Restrict Use of Property and Environmental Restriction for Property (the "2003 Covenant") between the United States Navy ("Navy") and the RWQCB, recorded in the Contra Costa County Recorder's office on September 30, 2003 (DOC-2003-0489199-00). The restrictions set forth in the 2003 Covenant are also set forth in the Quitclaim Deed from the Navy to the City executed on September 23, 2003 and recorded in the Contra Costa County Recorder's office on September 30, 2003 (DOC-2003-0489200-00) ("FOST Property Quitclaim Deed"). In accordance with Section 6.02 of the 2003 Covenant, the City applied to the RWQCB for a termination and release; in January 2009, the RWQCB approved the City's application for termination and release of the 2003 Covenant on the basis that the recordation of this Covenant makes the restrictions in the 2003 Covenant no longer necessary to protect present or future human health, safety, or the environment. The approval of the RWQCB's termination is conditioned upon, and effective only after, the recordation of this Covenant, which wholly replaces the 2003 Covenant with respect to the 2003 CRUP Property. In conjunction with the execution

and recording of this Covenant, the Navy and City are simultaneously executing Amendment One to the FOST Property Quitclaim Deed to conform the restrictions in that deed to those in this Covenant and are executing and recording a new Quitclaim Deed for the remainder of NFD Point Molate designated as Disposal Areas 3, 5, 10, and 13 being transferred pursuant to a Finding of Suitability for Early Transfer (known as the "FOSET Property" and generally depicted in Exhibit B) with restrictions which conform to this Covenant. Together, the 2003 CRUP Property and the FOSET Property comprise the Property. Disposal Areas 4, 7, 8, and 9 are not subject to this Covenant (as generally depicted in Exhibit B).

The Covenantor and the RWQCB (collectively, the "Parties") therefore intend that the use of the Property be restricted as set forth in this Covenant until the RWQCB makes a written determination that all the activities required by the applicable Site Cleanup Requirements Order have been completed or that the restrictions as outlined in this Covenant are otherwise no longer necessary to protect human health, safety and the environment.

The Covenantor currently has legal title and interest in the Property sufficient to enter into and record this Covenant to provide for continuing enforcement of the restrictions contained in this Covenant. This Covenant shall run with the land to all successors and assigns. Further, in any subsequent transfers or conveyances of the Property or any portion thereof, the City or any subsequent owner transferring or conveying the Property while this Covenant is in effect shall ensure that the subsequent

transferee is provided with a copy of this Covenant and of any RWQCB Site Cleanup Order applicable to the Property.

## ARTICLE I
## STATEMENT OF FACTS

1.01 The Property is more particularly described and depicted in Exhibit A. The Property consists of the sum of the 2003 CRUP Property and the FOSET Property (as generally depicted in Exhibit B). The Property is located just north of the Richmond-San Rafael Bridge, on the western edge of the Point San Pablo Peninsula in the City of Richmond, County of Contra Costa, State of California. The 2003 CRUP Property was transferred by the Navy to the City of Richmond in September 2003 after the Navy issued a FOST pursuant to Section 120(h)(3) of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA") (42 USC 9620(h)(3)), concluding that all necessary remediation of hazardous substances had been completed. The Navy had not completed non-CERCLA activities related to Underground Storage Tanks ("USTs") on the 2003 CRUP Property at that time. The 2003 Covenant placed restrictions on the 2003 CRUP Property.

1.02 The Navy has issued a FOSET dated September 2008, to transfer the FOSET Property, which was not transferred pursuant to the 2003 FOST. This transfer is being completed prior to regulatory closure for the Installation Restoration ("IR") Site 3 in Disposal Area 3, and IR Site 4 (consisting of the non-contiguous areas known as Drum Lot 1 and Drum Lot 2) in Disposal Areas 5 and 13 and prior to a final assessment of the adequacy of any interim response action. This type of transfer is known as an early

transfer and is subject to Section 120(h)(3)(C) of CERCLA (42 USC 9620(h)(3)(C)), and requires a determination by the Governor of the State that the FOSET Property is suitable for early transfer. Among other findings, the early transfer provisions of CERCLA require that the deed or other agreement governing the transfer contain assurances, among other things, that provide for any necessary restrictions on the use of the property to ensure the protection of human health and the environment; one intent of this Covenant is to fulfill that requirement.

1.03 The investigation of the FOSET Property conducted by the Navy indicates that hazardous materials are present in certain areas of the Early Transfer Property. Petroleum compounds, a small area of Volatile Organic Compounds ("VOCs"), metals, and polycyclical aromatic hydrocarbons ("PAHs") are present in the area of the Property known as IR Site 3 in Disposal Area 3. A small area of Volatile Organic Compounds (VOCs) is present in the soils and shallow groundwater in a portion of IR Site 4, Drum Lot 2 in Disposal Area 5. In addition, the RWQCB has not yet approved final regulatory closure at the remainder of Drum Lot 2 and Drum Lot 1 in Disposal Area 13. As a result, these sites may require further remedial action, which could be disrupted unless the restrictions set forth in this Covenant are established and followed.

1.04 The 2003 Covenant contains a finding that the 2003 CRUP Property has previously been determined to be unsuitable for residential use in its present condition. There are a number of remaining former USTs within those areas for which the RWQCB has not approved closure, thereby creating the possibility that further environmental

investigation activities could be disrupted unless the restrictions set forth in this Covenant are established and followed.

1.05 For the reasons set forth in Section 1.03 and 1.04 above, the RWQCB has determined that certain restrictions are reasonably necessary to protect present and future human health and safety and the environment and to ensure that required remedial investigations, response actions, and oversight activities on the Property will not be disrupted. The RWQCB and Covenantor anticipate that, as the RWQCB determines that no further action is necessary to prevent harm to human health or the environment or that the restrictions in this covenant are no longer necessary to protect human health or the environment at portions of the Property, those portions of the Property will be released from this Covenant pursuant to the provision of Article VI.

1.06 The Navy has determined, and the RWQCB has concurred, in a 2005 Record of Decision ("ROD") that the long-term operation and maintenance of the now-closed site landfill known as IR Site 1 in Disposal Area 10 (Disposal Area 10 is depicted in Exhibit B) on the FOSET Property requires the recordation of the restrictions prescribed for that area herein.

## ARTICLE II
## DEFINITIONS

2.01 RWQCB. "RWQCB" means the California Regional Water Quality Control Board, San Francisco Bay Region, and includes its successor agencies, if any.

2.02 Owner. "Owner" means the Covenantor and/or its successors in interest who hold title to all or any portion of the Property, during their ownership of all or any portion of the Property.

2.03 Occupant. "Occupant" means Owner and those persons or entities entitled by ownership, leasehold or other legal relationship to the right to use and/or occupy all or any portion of the Property.

2.04 Improvements. "Improvements" shall mean all buildings, structures, roads, driveways, regradings, and paved parking areas, constructed or placed upon any of the Property.

## ARTICLE III
## GENERAL PROVISIONS

3.01 Restrictions to Run with the Land. This Covenant sets forth protective provisions, covenants, restrictions, and conditions (collectively, "Restrictions"), subject to which the Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. Each and all of the Restrictions shall run with the land, and pass with each and every portion of the Property, and shall apply to, inure to the benefit of, and bind the respective successors in interest thereof, for the benefit of the RWQCB and all Owners and Occupants. Each and all of the Restrictions are imposed upon the entire Property unless expressly stated as applicable to a specific portion of the Property. Each and all of the Restrictions are enforceable by the RWQCB.

3.02 Binding upon Owners and Occupants. Pursuant to H&SC Section 25355.5(a)(1)(C), this Covenant binds all Owners and Occupants of the Property, their heirs, successors, and assignees, and the agents, employees, and lessees of the owners, heirs, successors, and assignees. Pursuant to Civil Code Section 1471(b), all successive owners of the Property are expressly bound hereby for the benefit of the RWQCB.

3.03 Concurrence of Owners and Lessees Presumed. All purchasers, lessees, or possessors of any portion of the Property shall be deemed by their purchase, leasing, or possession of the Property or any portion thereof, to be in accord with the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents, employees, and lessees of such owners, heirs, successors, and assignees, that the Restrictions as herein established must be adhered to for the benefit of the RWQCB and the Owners and Occupants of the Property and that the interests of the Owners and Occupants of the Property shall be subject to the Restrictions contained herein.

3.04 Written Notification. Upon a determination that a hazardous substance is present upon or beneath nonresidential real property, a notification must be made pursuant to H&SC Section 25359.7. Specifically, prior to the sale or lease of a portion of the Property to be used for nonresidential purposes where hazardous substances are present, the Owner or lessor shall give the buyer or lessee notice that a hazardous substance is located on or beneath that portion of the Property.

3.05 Incorporation into Deeds and Leases. Covenantor desires and covenants that the Restrictions set out herein shall be incorporated in and attached to each and all deeds and leases of any portion of the Property. Recordation of this Covenant shall be

deemed binding on all successors, assigns, and lessees, regardless of whether a copy of this Covenant has been attached to or incorporated into any given deed or lease.

3.06 Conveyance of Property. The Owner shall provide notice to the RWQCB not later than thirty (30) days after any conveyance of any ownership interest in the Property (excluding mortgages, liens, and other non-possessory encumbrances). The RWQCB shall not, by reason of this Covenant alone, have authority to approve, disapprove, or otherwise affect a conveyance, except as otherwise provided by law, by administrative order, or by a specific provision of this Covenant.

## ARTICLE IV
## RESTRICTIONS

4.01 Restrictions. The following Restrictions on the FOSET Property (Areas 3, 5, 10, & 13) and the 2003 CRUP Property (Areas 1, 2, 6, 11 & 12) shall apply until the RWQCB makes the written determination required by Section 6.03 below that the necessary remedial actions have been completed or that the restrictions are no longer necessary to protect human health or the environment:

(a) Use Restrictions. The FOSET Property and the 2003 CRUP Property shall not be used for any of the following purposes:

(i) A residence including any mobile home or factory built housing constructed or installed for use as residential human habitation;

(ii) Hospitals for humans, schools for persons under 21 years of age, day care centers for children, or any permanently occupied human habitation.

(b) General Activity Restrictions. Without written approval of the RWQCB pursuant to Section 4.03 below, the Owner or Occupant shall not engage in any of the following activities in or on the FOSET Property or the 2003 CRUP Property :

(1) Remove and dispose of contaminated soil or groundwater unless in accordance with all applicable Federal, State and local regulations governing removal, transport, and disposal of hazardous substances and hazardous waste.

(2) Conduct dewatering activities unless in accordance with a RWQCB -approved dewatering workplan.

(3) Disturb or use existing groundwater monitoring wells and other test wells without the prior written approval of the RWQCB.

(4) Disturb or excavate soils greater than twenty-four (24) inches below ground surface for any purpose other than environmental investigation or remediation unless Owner or Occupant provides prior notice to, and obtains approval of, the RWQCB to the extent, and in the manner, such approval is required under an approved soil and groundwater management plan applicable to the relevant area and the proposed excavation is implemented in a manner consistent with the requirements of that soil and groundwater management plan; if the excavation is consistent with the requirements of the approved applicable soil and groundwater management plan, and that plan does not require additional prior approval by the RWQCB, then no such approval is required for the specific excavation work. If the RWQCB has not approved a soil and groundwater management plan applicable to the area, or if the proposed excavation is inconsistent with the requirements of the soil and groundwater management plan, Owner

or Occupant shall obtain RWQCB approval pursuant to Section 4.03(a) prior to disturbing any soils as described above.

(5) Install groundwater production wells nor use the groundwater for residential, municipal, agricultural, or industrial uses without the written approval of the RWQCB.

(c) UST –Related Activity Restrictions. Without written approval of the RWQCB pursuant to Section 4.03 below, the Owner or Occupant shall not engage in any of the activities set forth in subparagraphs (1),(2) and (3) below with respect to the USTs that are located within Disposal Areas 1 and 6 (as depicted generally on Exhibit B hereto). If an issue arises relating to what specific property the UST-related Activity Restrictions apply, the RWQCB may require the Owner or Occupant to properly identify such property through a survey or other appropriate means.

(1) Use or access USTs or property on or around the USTs for a distance of 150 feet from the perimeter of the UST for any reason in a manner that may disrupt the structural integrity of the USTs, unless a licensed structural engineer certifies that such use, in conjunction with any appropriate mitigation measures, would not adversely affect the structural integrity of the UST, and the local government entity that issues permits for the installation of USTs gives its prior approval for such use.

(2) Install, place, cover or load the top of any UST with any combination of structures, vehicles, or equipment, unless a licensed structural engineer certifies that such activity, in conjunction with any appropriate mitigation measures, would not adversely affect the structural integrity of the UST, and the local government

entity that issues permits for the installation of USTs gives its prior approval to such activity. This restriction shall apply to all USTs.

(3) UST Removal. Remove any UST, or disturb the soil in preparation for removing a UST, unless in accordance with a RWQCB-approved workplan for such removal or disturbance.

4.02 Post-ROD Restrictions for Disposal Area 10 (IR Site 1).

(a) Disposal Area 10 (as depicted generally in Exhibit B) shall not be used for any of the following purposes:

(i) A residence including any mobile home or factory built housing constructed or installed for use as residential human habitation;

(ii) Hospitals for humans, schools for persons under 21 years of age, day care centers for children, or any permanently occupied human habitation.

(b) Activity Restrictions. Without the written approval of the RWQCB pursuant to Section 4.03(a) below, the Owner or Occupant shall not engage in any of the following activities in Disposal Area 10 (as depicted generally in Exhibit B):

(i) Engage in any activity which disturbs, breaches, or otherwise affects the integrity of the soil cover;

(ii) Extract or use groundwater for any purpose other than monitoring, remediation, or construction dewatering.

4.03. Procedures for obtaining RWQCB approval.

(a) If the Owner or Occupant wishes to seek RWQCB approval to engage in an activity which is otherwise prohibited pursuant to Section 4.01(b) or 4.02(b), Owner or

Occupant shall make a written application to the RWQCB and obtain RWQCB approval before engaging in the activity and shall provide the RWQCB with information sufficient to demonstrate that engaging in the proposed activity would be protective of human health, safety and the environment and would not disrupt the environmental investigation or remediation activities planned in the Restricted Area where the proposed activity would take place. If the RWQCB concurs with this demonstration, it shall approve the application. The RWQCB may require appropriate conditions on the approval, including but not limited to, preparation and implementation of a soil and groundwater management plan as a condition of granting its approval, with which Owner or Occupant shall comply.

(b) The Owner or Occupant may prepare, and submit to the RWQCB for approval, a soil and groundwater management plan for part or all of the Property. The soil and groundwater management plan shall establish appropriate procedures and contingency plans designed to ensure that excavation and groundwater disturbance activities do not disturb investigation or remediation activities and do not exacerbate existing contamination, and to ensure proper handling of contaminated materials.

4.04. Non-interference with ongoing monitoring, assessment or the final remedy; Non-Disturbance. No Owner's or Occupant's construction activities and/or operations on the Property shall interfere with ongoing corrective actions including monitoring or assessment work or the final remedy being conducted by responsible parties. No Owner or Occupant of the Property shall act in any manner that will aggravate or contribute to the existing environmental conditions of the Property.

4.05 Access for RWQCB. The RWQCB shall have reasonable right of entry and access to the Property for inspection, monitoring, and other activities consistent with the purposes of this Covenant and the applicable Site Cleanup Requirements Order, as may be amended, as deemed necessary by the RWQCB to protect the public health or safety or the environment.

4.06. All uses and development of the Property shall preserve any remedial measures taken or remedial equipment installed, and any groundwater monitoring system installed on the Property pursuant to the requirements of the RWQCB, unless otherwise expressly permitted by the RWQCB.

## ARTICLE V
## ENFORCEMENT

5.01 Enforcement. Failure of the Owner or Occupant to comply with any of the restrictions shall be grounds for the RWQCB, by reason of this Covenant, to have the authority to require that the Owner modify or remove any Improvements constructed in violation of the Restrictions. Violation of the Covenant shall be grounds for the RWQCB to file civil actions against the Owner as provided by law.

## ARTICLE VI
## VARIANCE, TERMINATION AND RELEASE

6.01 Variance. The Owner, or with the Owner's consent, any Occupant, may apply to the RWQCB for a written variance from the provisions of this Covenant. The RWQCB will grant the variance only after finding that such a variance would be protective of human health, safety and the environment. No variance, termination, release, or other terms of this Covenant shall extinguish or modify the retained interest

held separate and apart from this Covenant by the Navy in the 2003 FOST Deed and 2010 FOSET Deed and any amendments thereto.

6.02 Termination. The Owner, or with the Owner's consent, any Occupant, may apply to the RWQCB for a termination of the restrictions or other terms of this Covenant as they apply to all or any portion of the Property. No variance, termination, release, or other terms of this Covenant shall extinguish or modify the retained interest held separate and apart from this Covenant by the Navy in the 2003 FOST Deed and 2010 FOSET Deed and any amendments thereto.

6.03 Release of Restrictions. Upon the RWQCB making a written determination that: (i) all removal or remedial actions required for any portion of the Property by the applicable Site Cleanup Requirements Order have been completed, or (ii) that any or all of the restrictions on the Property are otherwise no longer necessary to protect present or future human health or safety or the environment, the RWQCB shall promptly authorize a release for terminating this Covenant or the relevant restriction with respect to the relevant portion of the Property. No variance, termination, release, or other terms of this Covenant shall extinguish or modify the retained interest held separate and apart from this Covenant by the Navy in the 2003 FOST Deed and 2010 FOSET Deed and any amendments thereto.

6.04 Amendments. Any amendment to this Covenant must be approved and signed by both the RWQCB and the City.

## ARTICLE VII
## MISCELLANEOUS

7.01 No Dedication Intended. Nothing set forth in this Covenant shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Property, or any portion thereof to the general public or anyone else for any purpose whatsoever.

7.02 Recordation. The Covenantor shall record this Covenant, with Exhibits A and B, in the County of Contra Costa within ten (10) days of the Covenantor's receipt of a fully executed original.

7.03 Notices. Whenever any person gives or serves any notice ("Notice" as used here includes any demand or other communication with respect to this Covenant), each such notice shall be in writing and shall be deemed effective: (1) when delivered, if personally delivered to the person being served or to an officer of a corporate party being served, or (2) three (3) business days after deposit in the mail, if mailed by United States mail, postage paid, certified, return receipt requested:

To Owner: City of Richmond
450 Civic Center Plaza
P.O. Box 4046
Richmond, CA 94804-1630
Attention: City Manager

To RWQCB: Regional Water Quality Control Board
1515 Clay Street, 14th Floor
Oakland, California 94612
Attention: Executive Officer

Any party may change its address or the individual to whose attention a Notice is to be sent by giving written Notice in compliance with this paragraph.

7.04 Partial Invalidity. If any portion of the Restrictions or other term set forth herein is determined by a court of competent jurisdiction to be invalid for any reason, the surviving portions of this Covenant shall remain in full force and effect as if such portion found invalid had not been included.

7.05 Exhibits. All exhibits referenced in this Covenant are deemed incorporated into this Covenant by reference.

7.06 Section Headings. The section headings set forth in this Covenant are included for convenience and reference only and shall be disregarded in the construction and interpretation of any of the provisions of this Covenant.

7.07 Representative Authority. The undersigned representative of each party to this Covenant certifies that he or she is fully authorized to enter into the terms and conditions of this Covenant and to execute and legally bind that party to this Covenant.

7.08 Statutory References. All statutory references include successor provisions.

7.09 Construction. Any general rule of construction to the contrary notwithstanding, this instrument shall be liberally construed in favor of the Covenant to effect the purpose of this instrument and the policy and purpose of the Water Code. If any provision of this instrument is found to be ambiguous, an interpretation consistent with the purpose of this instrument that would render the provision valid shall be favored over any interpretation that would render it invalid.

IN WITNESS WHEREOF, the Parties execute this Covenant.

Covenantor:

CITY OF RICHMOND

By: _____

~~BILL~~ WILLIAM LINDSAY
City Manager

Date: 3/25/10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD,
SAN FRANCISCO BAY REGION

By: _____

BRUCE H. WOLFE
Executive Officer

Date: 3/25/10

Approved as to form:

Date: 3/25/10 By: _____

Approved as to form:

Date: _____ By: _____

STATE OF CALIFORNIA )
)
COUNTY OF Contra Costa )

On this 25th day of March, in the year 2010, before me Pamela R. Christian, Notary, personally appeared William Lindsay,

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person~~(s)~~ whose name~~(s)~~ is ~~are~~ subscribed to the within instrument and acknowledged to me that he~~/she/they~~ executed the same in his~~/her/their~~ authorized capacity~~(ies)~~, and that by his~~/her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Pamela R. Christian

PAMELA R. CHRISTIAN
Commission # 1826025
Notary Public - California
Contra Costa County
My Comm. Expires Dec 8, 2012

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of CONTRA COSTA

On March 25, 2010 (Date) before me, ROSINA L. MARMOLEJO, Notary Public (Here Insert Name and Title of the Officer),

personally appeared Bruce H Wolfe (Name(s) of Signer(s))

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Rosina L. Marmolejo (Signature of Notary Public)

ROSINA L. MARMOLEJO
Commission # 1835803
Notary Public - California
Contra Costa County
My Comm. Expires Feb 9, 2013

Place Notary Seal Above

## OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

### Description of Attached Document

Title or Type of Document: Covenant to Restrict Property

Document Date: March 25, 2010 Number of Pages:

Signer(s) Other Than Named Above: N/A

### Capacity(ies) Claimed by Signer(s)

Signer's Name: Bruce H Wolfe

☑ Individual
☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other:

Signer Is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name:

☐ Individual
☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other:

Signer Is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

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# EXHIBIT A

# LEGAL DESCRIPTION

Disposal Areas 1, 2, 6, 11, and 12 a/k/a the "2003 CRUP Property"

and

Disposal Areas 3, 5, 10, and 13 a/k/a the "FOSET Property"

AREA 1 **LEGAL DESCRIPTION**

A PORTION OF TIDE LOTS 5, 6, 7 AND 8 AS DESIGNATED ON THE MAP ENTITLED "MAP NO. 1, SALT MARSH AND TIDE LANDS, SITUATE IN THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, 1872" AND A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**BEGINNING** AT A POINT AT THE NORTHWESTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113 HAVING A BEARING OF NORTH 41°23' WEST, 2384.11 FEET, SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 76 LSM 29, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE ALONG SAID JUDGEMENT LAND DESCRIPTION SOUTH 40° 27'17" EAST, 2383.78 FEET (NORTH 40°27'00" WEST, 2388.48 FEET, 76 LSM 29) TO THE SOUTHEASTERLY TERMINUS OF SAID COURSE TO A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN PER SAID 76 LSM 29, ALSO BEING A POINT HEREINAFTER REFERRED TO AS **POINT "A"**; THENCE CONTINUING SOUTHEASTERLY, ALONG SAID JUDGMENT LAND DESCRIPTION, SOUTH 52°31'27" EAST, 881.70 FEET (NORTH 54° WEST, 883.71 FEET, 819 O.R. 113), (NORTH 52°34'48" WEST, 883.57 FEET, 76 LSM 29) TO A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN PER SAID 76 LSM 29; THENCE LEAVING SAID JUDGMENT LAND DESCRIPTION AND 76 LSM 29 ALONG THE FOLLOWING COURSES: SOUTH 10°12'52" WEST, 198.05 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 55.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 50°23'44" EAST; THENCE SOUTHERLY, ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 63°11'48", 60.66 FEET; THENCE TANGENT TO SAID CURVE SOUTH 23°35'32" WEST, 96.01 FEET; THENCE SOUTH 20°08'57" WEST, 130.90 FEET; THENCE SOUTH 14°17'59" WEST, 47.90 FEET; THENCE SOUTH 17°42'05" WEST, 88.41 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 125.00 FEET; THENCE SOUTHERLY AND SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 72°18'17", 157.74 FEET; THENCE TANGENT TO SAID CURVE SOUTH 54°36'12" EAST, 35.12 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 70.00 FEET; THENCE SOUTHEASTERLY, SOUTHERLY AND SOUTHWESTERLY, ALONG THE ARC OF SAID

CURVE THROUGH A CENTRAL ANGLE OF 95°17'30", 116.42 FEET; THENCE TANGENT TO SAID CURVE SOUTH 40°41'18" WEST, 94.32 FEET; THENCE SOUTH 44°46'44" WEST, 116.90 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 22°27'57", 39.21 FEET; THENCE TANGENT TO SAID CURVE SOUTH 67°14'41" WEST, 74.63 FEET; THENCE SOUTH 59°28'19" WEST, 84.03 FEET; THENCE SOUTH 52°07'01" WEST, 32.87 FEET; THENCE SOUTH 59°18'57" WEST, 71.64 FEET; THENCE SOUTH 67°50'38" WEST, 67.70 FEET; THENCE SOUTH 64°12'46" WEST, 132.36 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 400.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 26°15'26", 183.31 FEET; THENCE TANGENT TO SAID CURVE SOUTH 37°57'20" WEST, 164.93 FEET; THENCE NORTH 52°02'40" WEST, 66.64 FEET; THENCE SOUTH 37°57'20" WEST, 412.80 FEET TO THE MEAN HIGH WATER LINE ON THE PACIFIC OCEAN, SAID MEAN HIGH WATER LINE SET AT 2.62 FEET, SEA LEVEL DATUM OF 1929, AS SAID ELEVATION IS DETERMINED FROM TIDAL BENCH MARK NO. 5 HAVING NATIONAL OCEAN SURVEY PID NO. HT0935; THENCE ALONG SAID MEAN HIGH WATER LINE THE FOLLOWING MEANDERED COURSES: NORTH 34°19'53" WEST, 44.69 FEET; THENCE NORTH 89°22'42" WEST, 36.28 FEET; THENCE NORTH 47°02'43" WEST, 362.72 FEET; THENCE NORTH 68°49'46" WEST, 67.62 FEET; THENCE NORTH 42°53'27" WEST, 311.67 FEET; THENCE NORTH 50°08'38" WEST, 140.54 FEET; THENCE NORTH 65°40'23" WEST, 159.02 FEET; THENCE SOUTH 87°05'08" WEST, 81.89 FEET; THENCE SOUTH 88°40'35" WEST, 43.41 FEET; THENCE NORTH 69°08'13" WEST, 41.08 FEET; THENCE NORTH 70°31'40" WEST, 130.72 FEET; THENCE NORTH 63°38'53" WEST, 63.02 FEET; THENCE NORTH 65°08'48" WEST, 394.97 FEET; THENCE NORTH 65°45'40" WEST, 239.27 FEET; THENCE NORTH 89°37'59" WEST, 251.39 FEET; THENCE SOUTH 43°41'43" WEST, 176.37 FEET; THENCE SOUTH 37°41'46" WEST, 89.58 FEET; THENCE SOUTH 74°10'57" WEST, 84.01 FEET; THENCE NORTH 69°51'46" WEST, 114.32 FEET; THENCE LEAVING SAID MEAN HIGH WATER LINE NORTH 43°21'42" EAST, 362.28 FEET; THENCE NORTH 84°51'47" EAST, 193.82 FEET; THENCE NORTH 43°57'58" WEST, 134.67 FEET; THENCE NORTH 29°26'53" WEST, 176.01 FEET; THENCE NORTH 24°41'35" WEST, 377.75 FEET; THENCE NORTH 12°59'56" EAST, 147.72 FEET; THENCE NORTH 26°17'09" EAST, 20.33 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 43.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 63°42'53" WEST; THENCE EASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 92°39'22", 69.54 FEET; THENCE TANGENT TO SAID CURVE SOUTH 61°03'30" EAST, 24.78 FEET; THENCE SOUTH 85°57'01"

EAST, 70.92 FEET; THENCE NORTH 78°38'41" EAST, 162.93 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 30.00 FEET; THENCE EASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 35°32'48", 18.61 FEET TO A POINT OF COMPOUND CURVATURE WITH A CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 417.50 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 24°11'30" EAST; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 11°32'55", 84.15 FEET TO A POINT OF COMPOUND CURVATURE WITH A CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 328.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 35°44'25" EAST; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 30°18'22", 173.49 FEET TO A POINT OF REVERSE CURVATURE WITH A CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 408.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 66°02'27" WEST; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 10°52'55", 77.49 FEET TO A POINT OF COMPOUND CURVATURE WITH A CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 430.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 55°09'51" WEST; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGEL OF 34°14'06", 256.93 FEET; THENCE TANGENT TO SAID CURVE SOUTH 69°04'15" EAST, 154.37 FEET; THENCE SOUTH 60°16'28" EAST, 97.18 FEET; THENCE SOUTH 57°49'26" EAST, 76.92 FEET; THENCE SOUTH 64°56'55" EAST, 134.85 FEET TO A POINT OF CUSP ON A NON-TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 165.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 57°23'13" EAST; THENCE NORTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 46°21'29", 133.50 FEET; THENCE NON-TANGENT TO SAID CURVE NORTH 70°43'29" EAST, 128.32 FEET; THENCE NORTH 39°44'49" WEST, 225.91 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 104.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 44°56'55" WEST; THENCE NORTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 52°44'45", 95.74 FEET; THENCE TANGENT TO SAID CURVE NORTH 07°41'39" EAST, 62.05 FEET; THENCE NORTH 24°46'14" EAST, 74.39 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 143.00 FEET; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 57°10'49", 142.71 FEET; THENCE TANGENT TO SAID CURVE NORTH 81°57'02" EAST, 100.96 FEET; THENCE NORTH 53°30'38" EAST, 307.04 FEET; THENCE NORTH 20°25'49" WEST, 130.93 FEET; THENCE NORTH 70°03'28" WEST, 391.62 FEET; THENCE NORTH 11°27'15" EAST, 258.24 FEET; THENCE NORTH 76°14'59" EAST, 127.73 FEET; THENCE NORTH 04°08'39" WEST, 111.83 FEET; THENCE NORTH 10°11'53" EAST, 68.52

FEET; THENCE NORTH 36°04'45" WEST, 96.57 FEET; THENCE NORTH 07°07'00" WEST, 135.53 FEET; THENCE NORTH 13°02'37" WEST, 114.61 FEET; THENCE NORTH 47°34'30" WEST, 254.70 FEET; THENCE SOUTH 75°25'10" WEST, 70.85 FEET; THENCE NORTH 46°08'57" WEST, 42.41 FEET; THENCE NORTH 07°40'45" EAST, 61.66 FEET; THENCE NORTH 25°17'45" WEST, 267.64 FEET TO A POINT ON THE NORTHERLY LINE OF THE ABOVE-MENTIONED JUDGMENT LAND DESCRIPTION HAVING A CERTAIN COURSE OF SOUTH 70°09' WEST; THENCE ALONG SAID JUDGEMENT LAND DESCRIPTION THE FOLLOWING COURSES: NORTH 71°22'13" EAST, 63.07 FEET (SOUTH 70°09' WEST, 819 O.R. 113), (SOUTH 71°21'04" WEST 76 LSM 29); THENCE NORTH 29°53'00" EAST, 471.59 FEET, (SOUTH 28°29' WEST, 472.09 FEET, 819 O.R. 113), (SOUTH 29°55'34" WEST, 471.76 FEET, 76 LSM 29) TO THE **POINT OF BEGINNING**.

EXCEPTING THEREFROM THE FOLLOWING AREA MORE PARTICULARLY DESCRIBED BELOW:

COMMENCING AT A POINT HEREINABOVE REFERRED TO AS **POINT "A"**; THENCE SOUTH 16°45'48" WEST, 586.23 FEET TO THE **POINT OF BEGINNING (2nd)** OF THE ABOVE MENTIONED EXCEPTION AREA; THENCE SOUTH 20°44'41" EAST, 123.09 FEET; THENCE SOUTH 24°43'11" WEST, 46.30 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 885.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 47°57'14" WEST; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 15°05'11", 233.03 FEET; THENCE TANGENT TO SAID CURVE SOUTH 26°57'35" WEST, 175.89 FEET; THENCE SOUTH 46°56'38" WEST, 33.07 FEET; THENCE SOUTH 16°30'48" WEST, 38.48 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 102.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 26°28'08", 47.12 FEET; THENCE TANGENT TO SAID CURVE SOUTH 42°58'56" WEST, 75.20 FEET; THENCE NORTH 47°01'04" WEST, 21.86 FEET; THENCE SOUTH 58°13'55" WEST, 118.19 FEET; THENCE SOUTH 31°46'05" EAST, 10.00 FEET; THENCE SOUTH 58°13'55" WEST, 34.00 FEET; THENCE NORTH 31°46'05" WEST, 36.00 FEET; THENCE NORTH 58°13'55" EAST, 34.00 FEET; THENCE SOUTH 31°46'05" EAST, 6.00 FEET; THENCE NORTH 58°13'55" EAST, 112.74 FEET; THENCE NORTH 47°01'04" WEST, 68.64 FEET; THENCE NORTH 16°50'51" EAST, 31.40 FEET; THENCE NORTH 09°34'01" WEST, 109.98 FEET; THENCE NORTH 19°29'50" EAST, 212.06 FEET; THENCE NORTH 00°01'54" WEST, 58.05 FEET; THENCE NORTH 16°44'05" EAST, 77.10

FEET; THENCE NORTH 68°46'01" EAST, 315.71 FEET TO THE LAST MENTIONED **POINT OF BEGINNING.**

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 134.612 (GROUND UNITS) ACRES, MORE OR LESS.

9/11/2003

GARY L. RUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006

LICENSED LAND SURVEYOR
GARY L. RUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
DATE 9/12/03

## LEGAL DESCRIPTION:

A PORTION OF TIDE LOTS 5, 6, 7 AND 8 AS DESIGNATED ON THE MAP ENTITLED "MAP NO. 1, SALT MARSH AND TIDE LANDS SITUATE IN THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, 1872" AND A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

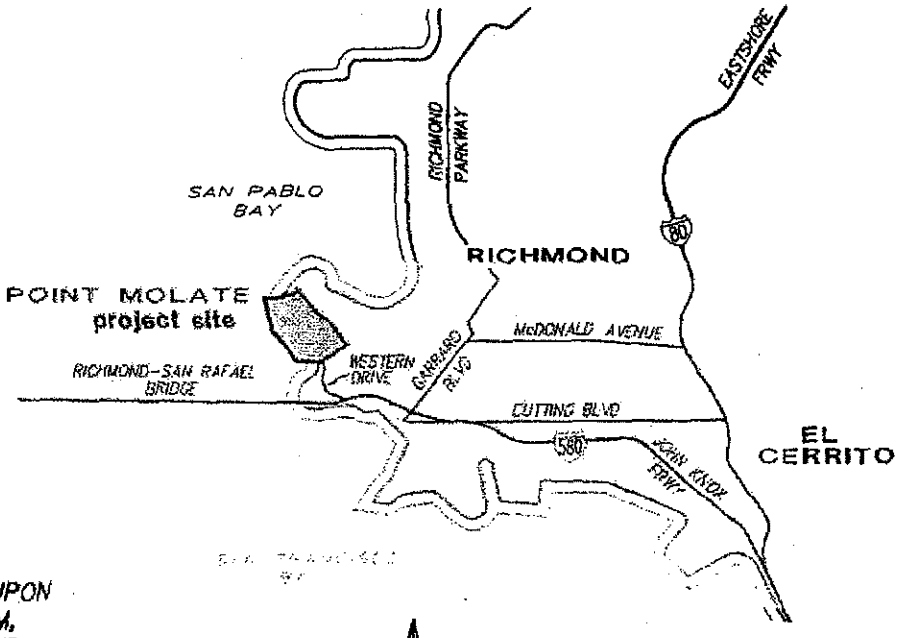
## LEGEND:

_ _ _ _ _ INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113

**P.O.B.** INDICATES POINT OF BEGINNING

INDICATES PARCEL AREA 134.612 ACRES (GROUND UNITS), MORE OR LESS

[OVERALL AREA OF 137.925 ACRES (GROUND UNITS) LESS EXCEPTION OF 3.313 ACRES (GROUND UNITS)]




N

VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

9/11/2003

GARY L. HUS, L.S. 7019 DATE
REGISTRATION EXPIRES 6/30/2006

LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
DATE 9/12/03

**EXHIBIT 'A'**

SHEET 1 OF 10

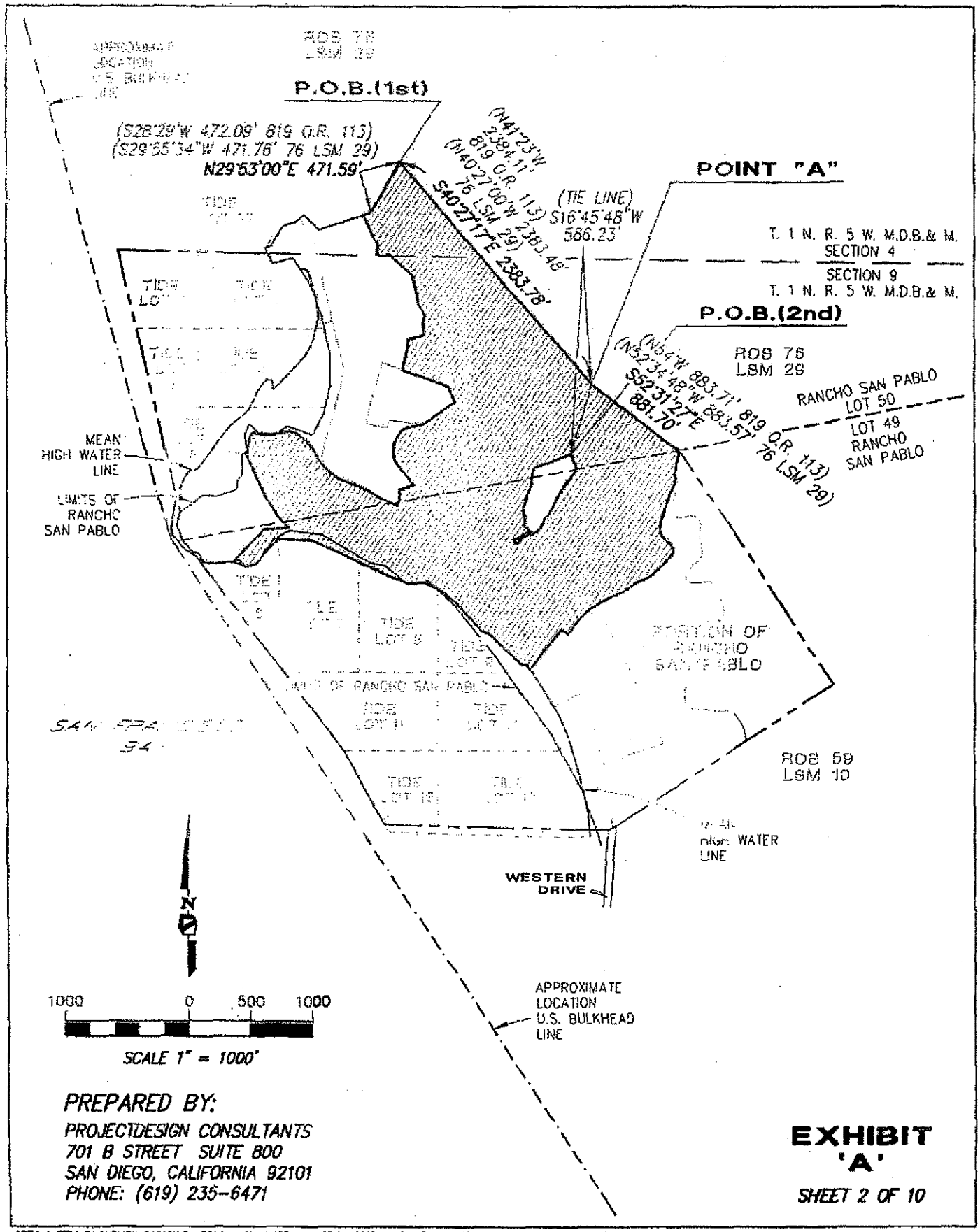



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**EXHIBIT 'A'**

*SHEET 2 OF 10*

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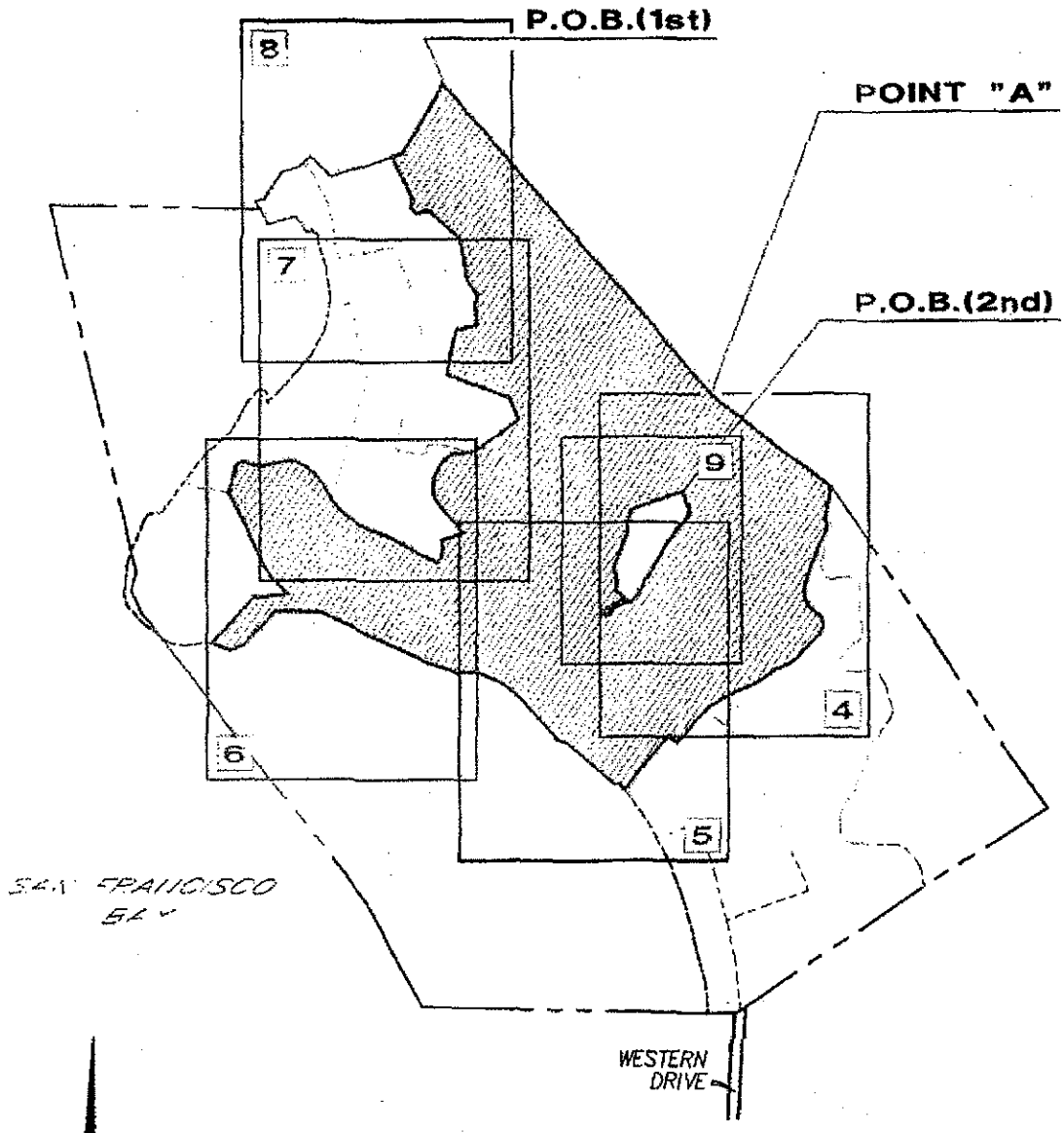


N

1000 0 500 1000

SCALE 1" = 1000'

**KEY MAP**

5 ___ INDICATES SHEET NUMBER

*PREPARED BY:*

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*701 B STREET SUITE 800*
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**EXHIBIT 'A'**

*SHEET 3 OF 10*

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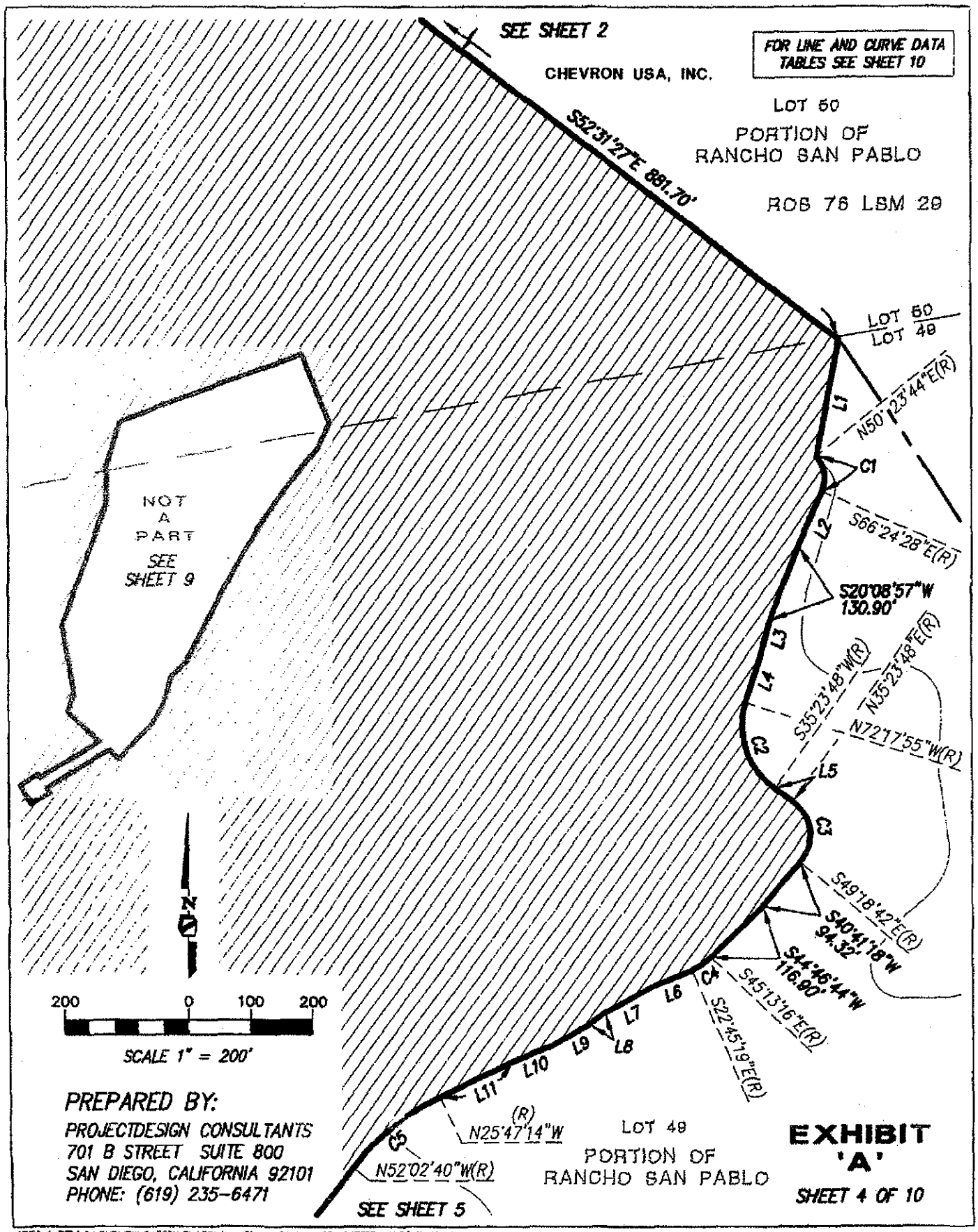


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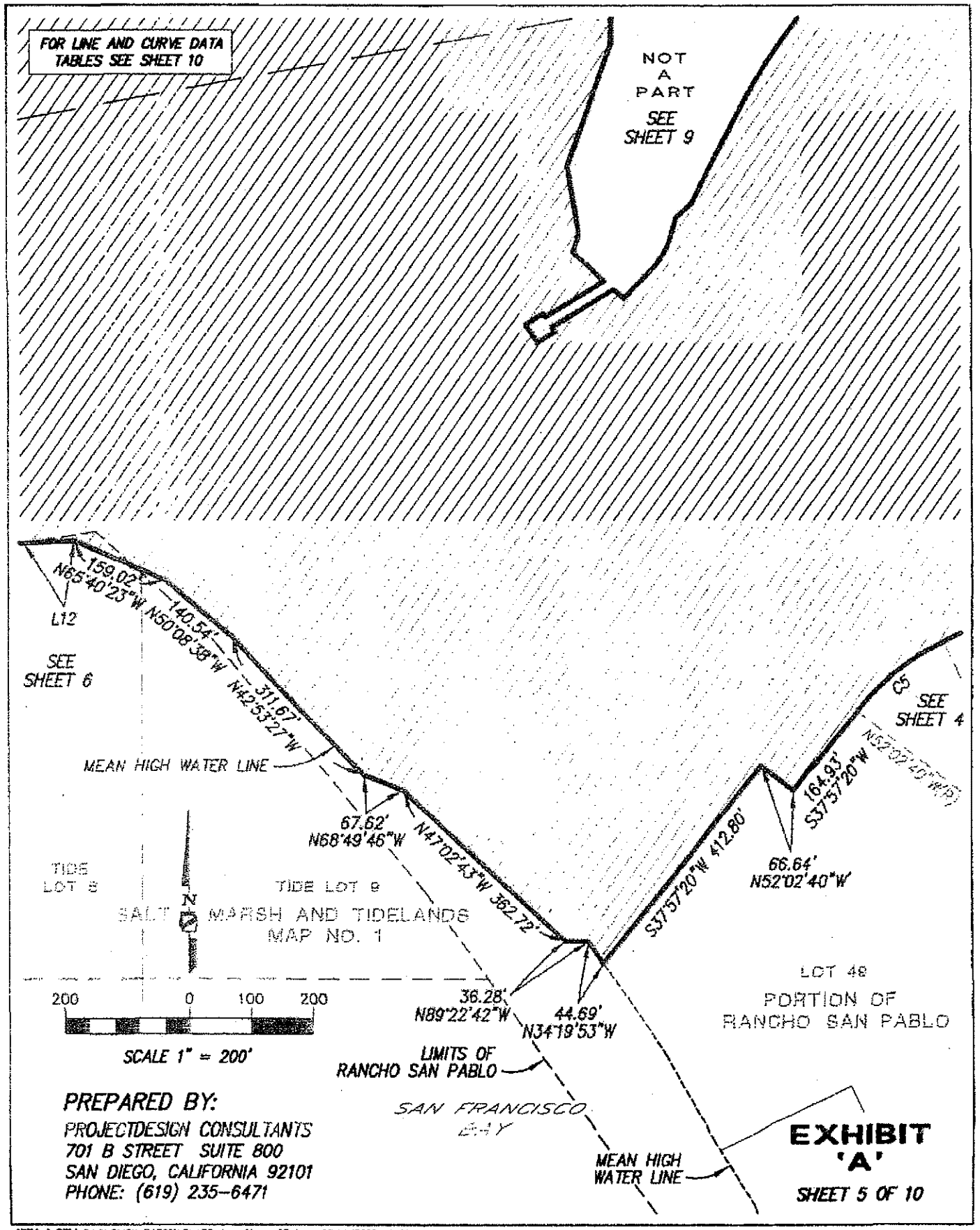


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**EXHIBIT 'A'**

SHEET 5 OF 10

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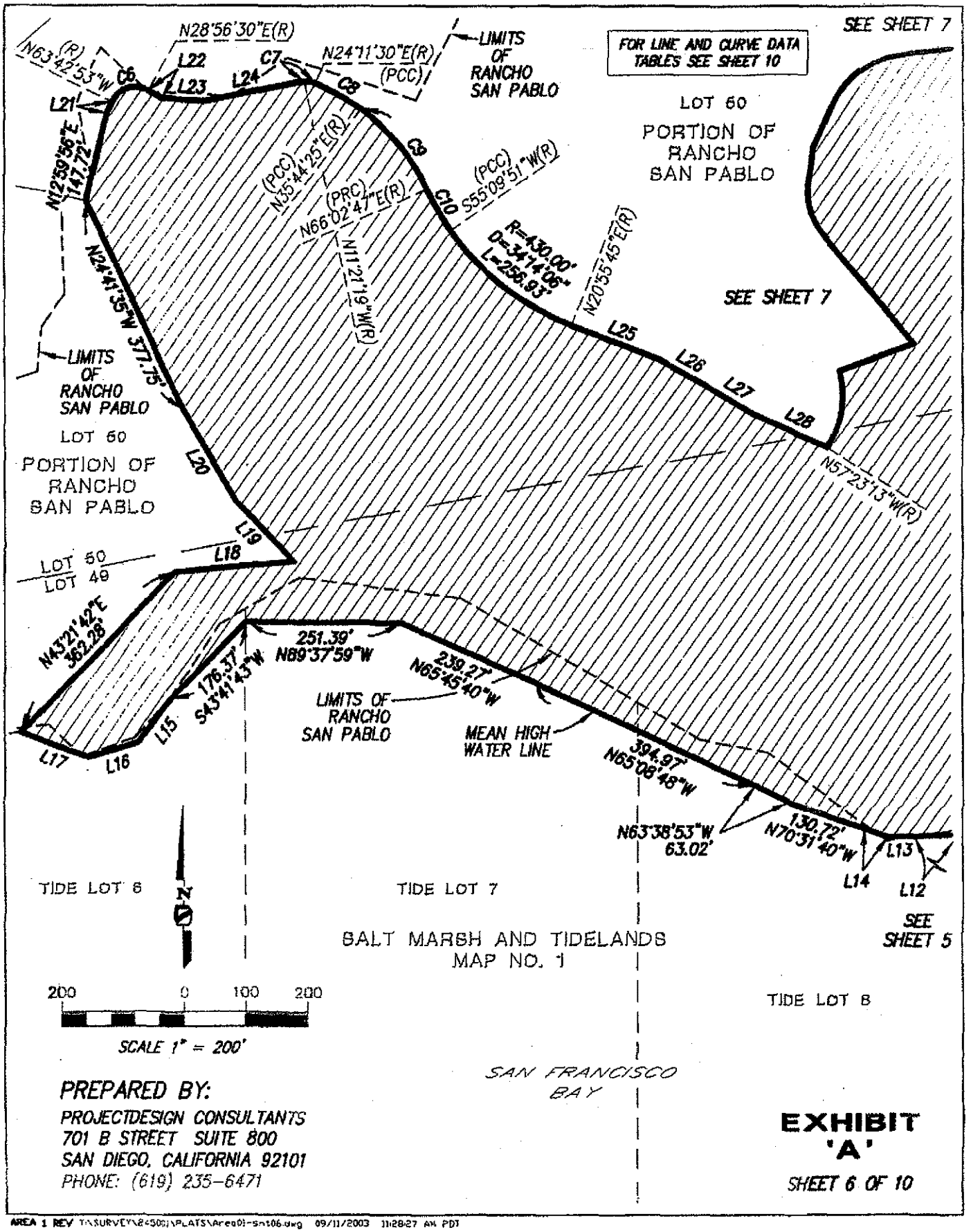


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**EXHIBIT 'A'**

SHEET 6 OF 10

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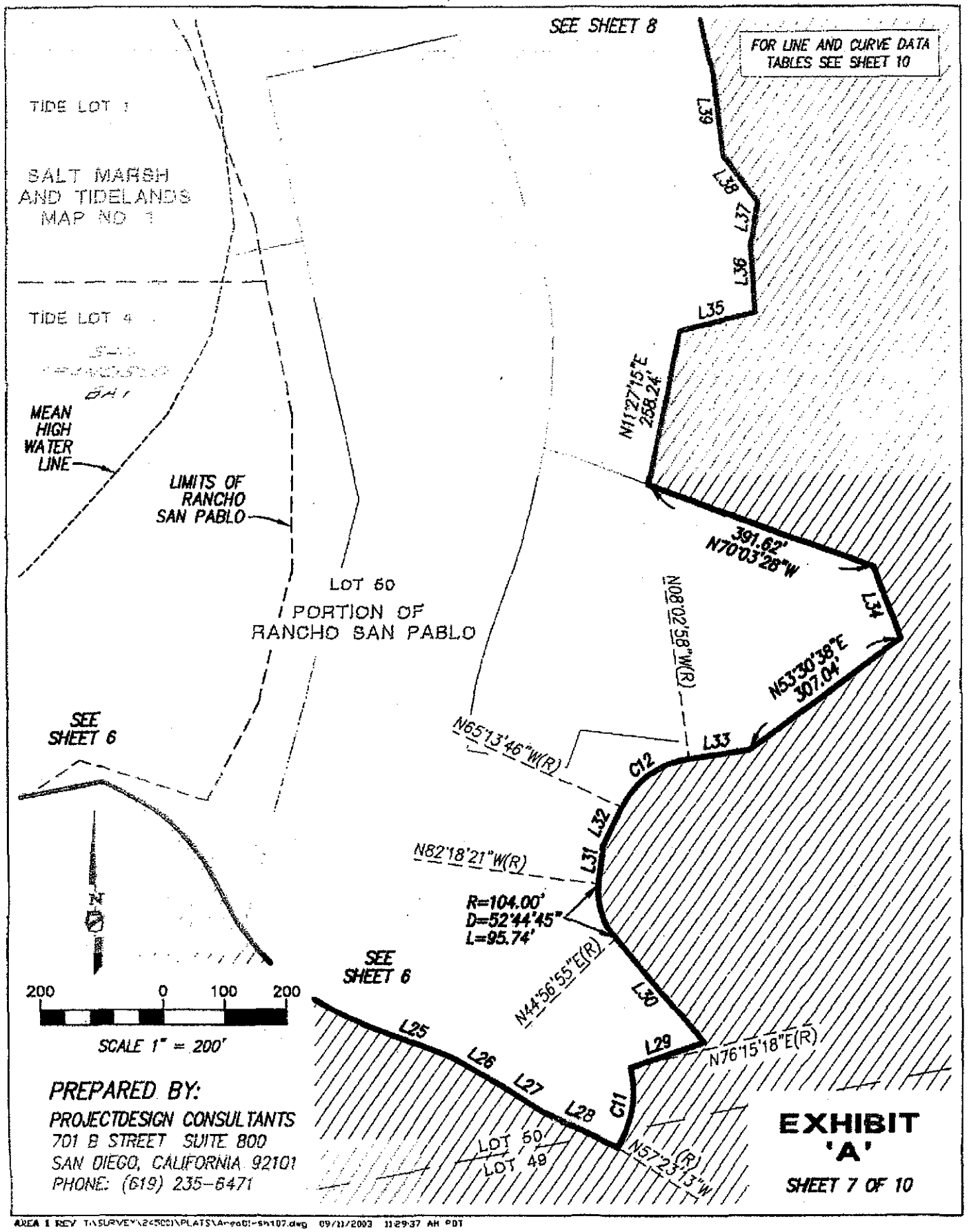


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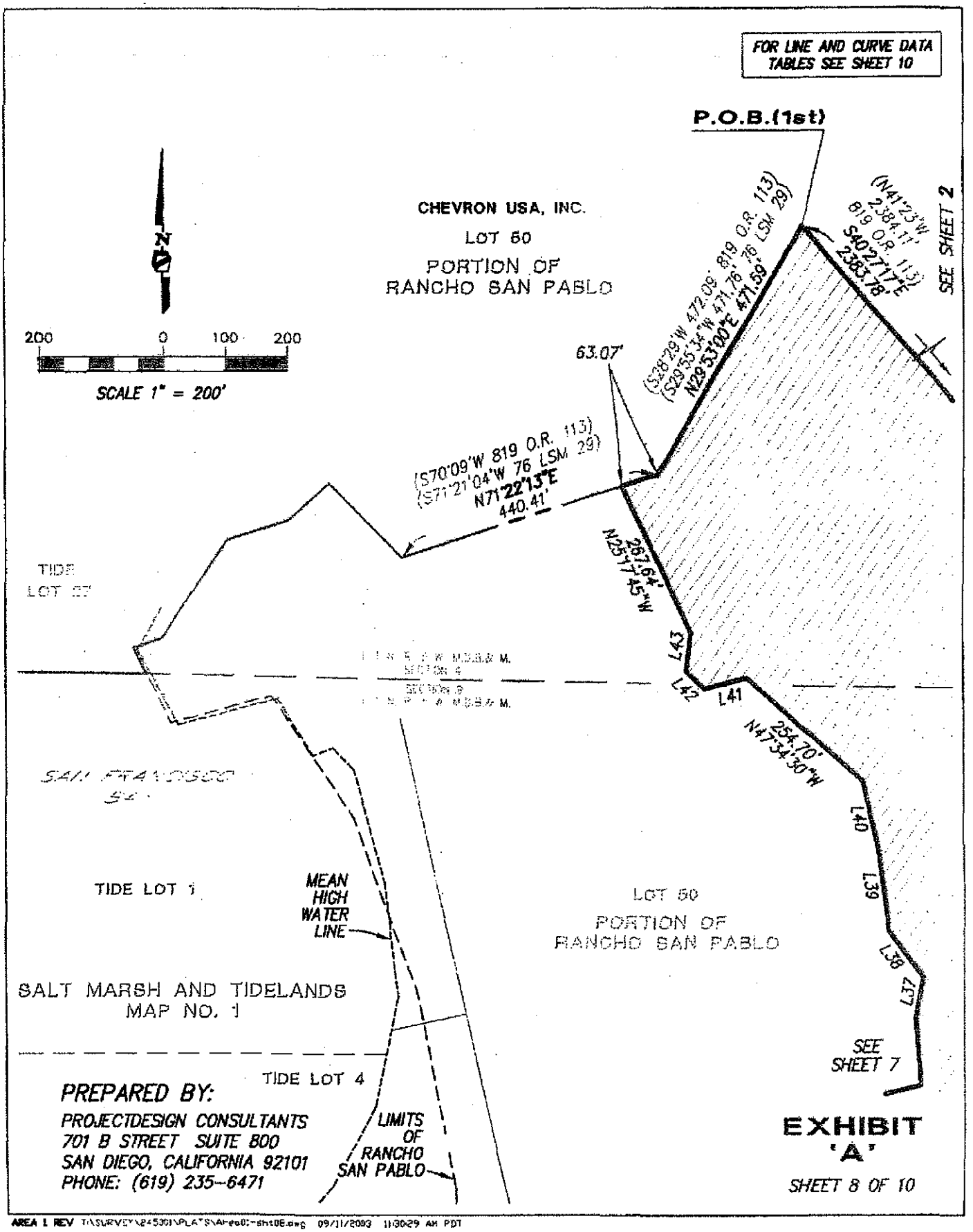
FOR LINE AND CURVE DATA TABLES SEE SHEET 10
P.O.B.(1st)
CHEVRON USA, INC.
LOT 50
PORTION OF
RANCHO SAN PABLO
N
200 0 100 200
SCALE 1" = 200'
(N41°23'W 2,384.11' 819 O.R. 113) S40°27'17"E 2383.78'
(S38°29'W 472.09' 819 O.R. 113) (S29°55'34"W 471.76' 76 LSM 29) N29°53'00"E 471.59'
63.07'
(S70°09'W 819 O.R. 113) (S71°21'04"W 76 LSM 29) N71°22'13"E 440.41'
N25°17'45"W 267.64'
L43
L42
L41
N47°34'30"W 254.70'
L40
L39
L38
L37
SEE SHEET 7
SEE SHEET 2
TIDE LOT 57
SAN FRANCISCO BAY
TIDE LOT 1
MEAN HIGH WATER LINE
LOT 50
PORTION OF
RANCHO SAN PABLO
SALT MARSH AND TIDELANDS MAP NO. 1
TIDE LOT 4
LIMITS OF RANCHO SAN PABLO
PREPARED BY:
PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471
EXHIBIT 'A'
SHEET 8 OF 10
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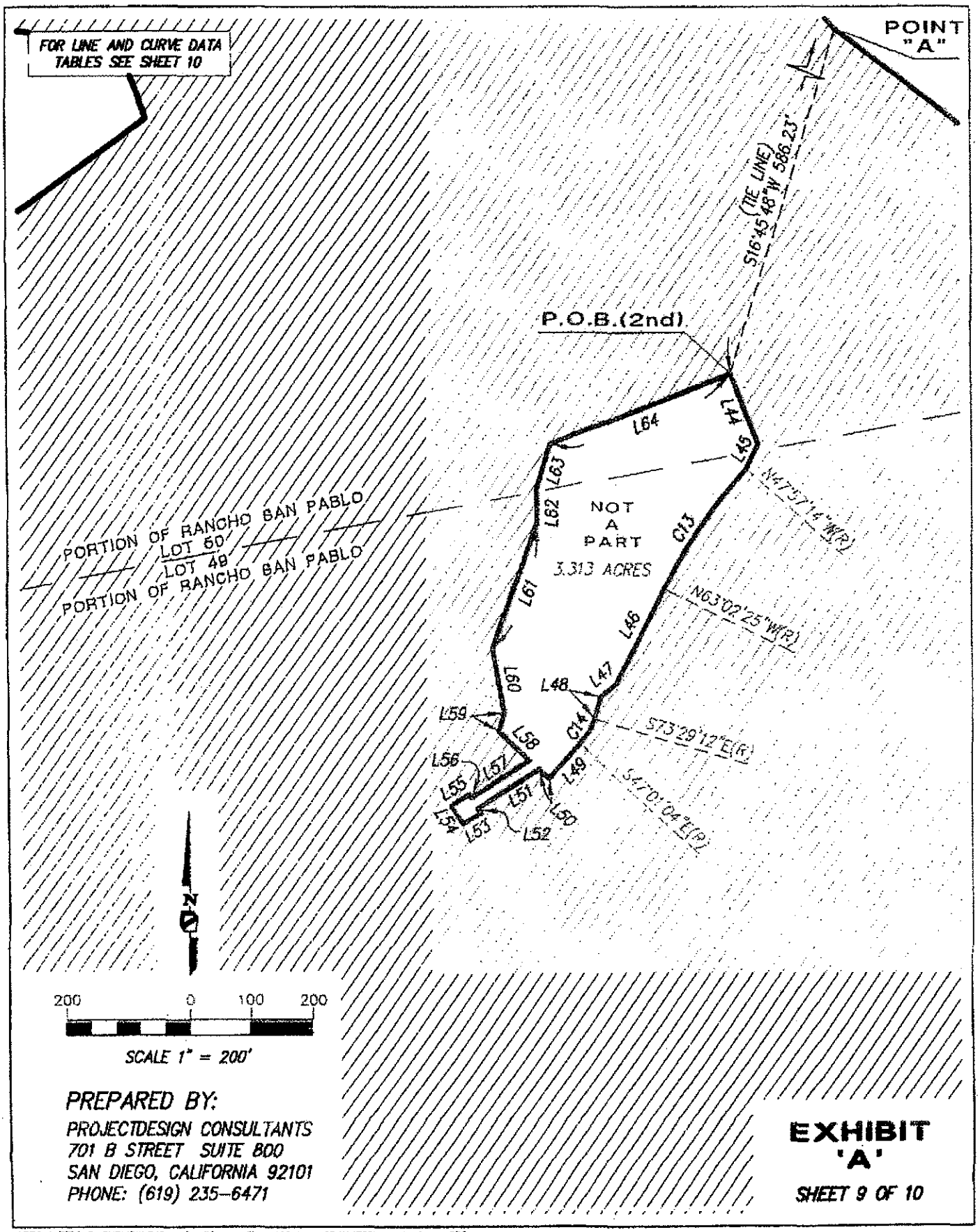


PREPARED BY:

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**EXHIBIT 'A'**

SHEET 9 OF 10

# DATA TABLE SHEET

**CURVE DATA**

| NO. | RADIUS | DELTA | ARC |
|---|---|---|---|
| C1 | 55.00' | 63°11'48" | 60.66' |
| C2 | 125.00' | 72°18'17" | 157.74' |
| C3 | 70.00' | 95°17'30" | 116.42' |
| C4 | 100.00' | 22°27'57" | 39.21' |
| C5 | 400.00' | 26°15'26" | 183.31' |
| C6 | 43.00' | 92°39'22" | 69.54' |
| C7 | 30.00' | 35°32'48" | 18.61' |
| C8 | 417.50' | 11°32'55" | 84.15' |
| C9 | 328.00' | 30°18'22" | 173.49' |
| C10 | 408.00' | 10°52'55" | 77.49' |
| C11 | 165.00' | 46°21'29" | 133.50' |
| C12 | 143.00' | 57°10'49" | 142.71' |
| C13 | 885.00' | 15°05'11" | 233.03' |
| C14 | 102.00' | 26°28'08" | 47.12' |

**LINE DATA**

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | S10°12'52"W | 198.05' |
| L2 | S23°35'32"W | 96.01' |
| L3 | S14°17'59"W | 47.90' |
| L4 | S17°42'05"W | 88.41' |
| L5 | S54°36'12"E | 35.12' |
| L6 | S67°14'41"W | 74.63' |
| L7 | S59°28'19"W | 84.03' |
| L8 | S52°07'01"W | 32.87' |
| L9 | S59°18'57"W | 71.64' |
| L10 | S67°50'38"W | 67.70' |
| L11 | S64°12'46"W | 132.36' |
| L12 | S87°05'08"W | 81.89' |
| L13 | S88°40'35"W | 43.41' |
| L14 | N69°08'13"W | 41.08' |
| L15 | S37°41'46"W | 89.58' |
| L16 | S74°10'57"W | 84.01' |
| L17 | N69°51'46"W | 114.32' |
| L18 | N84°51'47"E | 193.82' |
| L19 | N43°57'58"W | 134.67' |
| L20 | N29°26'53"W | 176.01' |
| L21 | N26°17'09"E | 20.33' |
| L22 | S61°03'30"E | 24.78' |
| L23 | S85°57'01"E | 70.92' |
| L24 | N78°38'41"E | 162.93' |
| L25 | S69°04'15"E | 154.37' |
| L26 | S60°16'28"E | 97.18' |
| L27 | S57°49'26"E | 76.92' |
| L28 | S64°56'55"E | 134.85' |
| L29 | N70°43'29"E | 128.32' |
| L30 | N39°44'49"W | 225.91' |
| L31 | N07°41'39"E | 62.05' |
| L32 | N24°46'14"E | 74.39' |
| L33 | N81°57'02"E | 100.96' |
| L34 | N20°25'49"W | 130.93' |
| L35 | N76°14'59"E | 127.73' |
| L36 | N04°08'39"W | 111.83' |
| L37 | N10°11'53"E | 68.52' |
| L38 | N36°04'45"W | 96.57' |
| L39 | N07°07'00"W | 135.33' |
| L40 | N13°02'37"W | 114.61' |
| L41 | S75°25'10"W | 70.85' |
| L42 | N46°08'57"W | 42.41' |
| L43 | N07°40'45"E | 61.66' |
| L44 | S20°44'41"E | 123.09' |
| L45 | S24°43'11"W | 46.30' |
| L46 | S26°57'35"W | 175.89' |
| L47 | S46°56'38"W | 33.07' |
| L48 | S16°30'48"W | 38.48' |
| L49 | S42°58'56"W | 75.20' |
| L50 | N47°01'04"W | 21.86' |
| L51 | S58°13'55"W | 118.19' |
| L52 | S31°46'05"E | 10.00' |
| L53 | S58°13'55"W | 34.00' |
| L54 | N31°46'05"W | 36.00' |
| L55 | N58°13'55"E | 34.00' |
| L56 | S31°46'05"E | 6.00' |
| L57 | N58°13'55"E | 112.74' |
| L58 | N47°01'04"W | 68.64' |
| L59 | N16°50'51"E | 31.40' |
| L60 | N09°34'01"W | 109.98' |
| L61 | N19°29'50"E | 212.06' |
| L62 | N00°01'54"W | 58.05' |
| L63 | N16°44'05"E | 77.10' |
| L64 | N68°46'01"E | 315.71' |


*PREPARED BY:*

*PROJECTDESIGN CONSULTANTS*
*701 B STREET SUITE 800*
*SAN DIEGO, CALIFORNIA 92101*
*PHONE: (619) 235-6471*


**EXHIBIT 'A'**

*SHEET 10 OF 10*

AREA 2

**LEGAL DESCRIPTION**

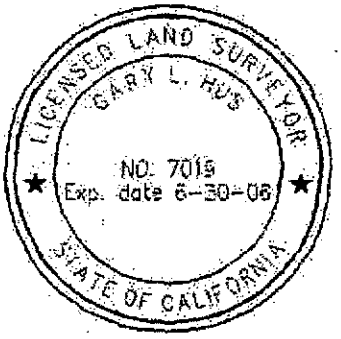
A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT AT THE NORTHWESTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113 HAVING A BEARING OF NORTH 41°23' WEST, 2384.11 FEET, SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 76 LSM 29, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE ALONG THE NORTHERLY LINE OF SAID JUDGMENT LAND DESCRIPTION THE FOLLOWING COURSES: SOUTH 29°53'00" WEST, 471.59 FEET, (SOUTH 28°29' WEST, 472.09 FEET, 819 O.R. 113), (SOUTH 29°55'34" WEST, 471.76 FEET, 76 LSM 29); THENCE SOUTH 71°22'13" WEST, 63.07 FEET (SOUTH 70°09' WEST, 819 O.R. 113), (SOUTH 71°21'04" WEST) TO THE **POINT OF BEGINNING**; THENCE LEAVING SAID NORTHERLY LINE OF SAID JUDGMENT LAND DESCRIPTION SOUTH 25°17'45" EAST, 267.64 FEET; THENCE SOUTH 07°40'45" WEST, 61.66 FEET; THENCE SOUTH 46°08'57" EAST, 42.41 FEET; THENCE SOUTH 75°25'10" WEST, 70.85 FEET; THENCE SOUTH 47°34'30" EAST, 254.70 FEET; THENCE SOUTH 13°02'37" EAST, 114.61 FEET; THENCE SOUTH 07°07'00" EAST, 135.33 FEET; THENCE SOUTH 36°04'45" EAST, 96.57 FEET; THENCE SOUTH 10°11'53" WEST, 68.52 FEET; THENCE SOUTH 04°08'39" EAST, 111.83 FEET; THENCE SOUTH 76°14'59" WEST, 127.73 FEET; THENCE SOUTH 11°27'15" WEST, 258.24 FEET; THENCE NORTH 71°04'34" WEST, 181.62 FEET; THENCE SOUTH 09°35'56" WEST, 33.95 FEET TO THE BEGINNING OF A NON-TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 1355.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 78°46'09" EAST; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 07°18'05", 172.67 FEET; THENCE TANGENT TO SAID CURVE SOUTH 18°31'56" WEST, 128.64 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 663.00 FEET; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 15°28'39", 179.10 FEET; THENCE NON-TANGENT TO SAID CURVE SOUTH 79°56'50" EAST, 166.58 FEET; THENCE NORTH 18°31'56"

EAST, 66.63 FEET; THENCE SOUTH 82°58'33" EAST, 280.00 FEET; THENCE SOUTH 81°57'02" WEST, 100.96 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 143.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 57°10'49", 142.71 FEET; THENCE TANGENT TO SAID CURVE SOUTH 24°46'14" WEST, 74.39 FEET; THENCE SOUTH 07°41'39" WEST, 62.05 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 104.00 FEET; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 52°44'45", 95.74 FEET; THENCE NON-TANGENT TO SAID CURVE SOUTH 39°44'49" EAST, 225.91 FEET; THENCE SOUTH 70°43'29" WEST, 128.32 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 165.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 76°15'18" EAST; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 46°21'29", 133.50 FEET; THENCE NORTH 64°56'55" WEST, 134.85 FEET; THENCE NORTH 57°49'26" WEST, 76.92 FEET; THENCE NORTH 60°16'28" WEST, 97.18 FEET; THENCE NORTH 69°04'15" WEST, 154.37 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 430.00 FEET; THENCE NORTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 34°14'06", 256.93 FEET; THENCE NON-TANGENT TO SAID CURVE NORTH 15°08'40" EAST, 738.78 FEET; THENCE NORTH 12°20'38" WEST, 1064.01 FEET; THENCE NORTH 27°54'31" WEST, 261.47 FEET TO A POINT ON THE NORTHERLY LINE OF THE ABOVE-MENTIONED JUDGMENT LAND DESCRIPTION; THENCE ALONG SAID JUDGMENT LAND DESCRIPTION THE FOLLOWING COURSES: NORTH 46°25'17" EAST, 45.74 FEET (SOUTH 46°24'59" WEST, 819 O.R. 113); THENCE SOUTH 43°32'17" EAST, 172.14 FEET (NORTH 43°35'01" WEST, 172.14 FEET, 819 O.R. 113); THENCE NORTH 71°22'13" EAST, 377.35 FEET (SOUTH 70°09' WEST, 819 O.R. 113), (SOUTH 71°21'04" WEST) TO THE **POINT OF BEGINNING**.

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 27.570 (GROUND UNITS) ACRES, MORE OR LESS.




9/11/2003

GARY L. HUS DATE

L.S. 7019

EXPIRATION DATE 6/30/2006

APPROVED BY

DATE 9/12/03

## LEGAL DESCRIPTION:

A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

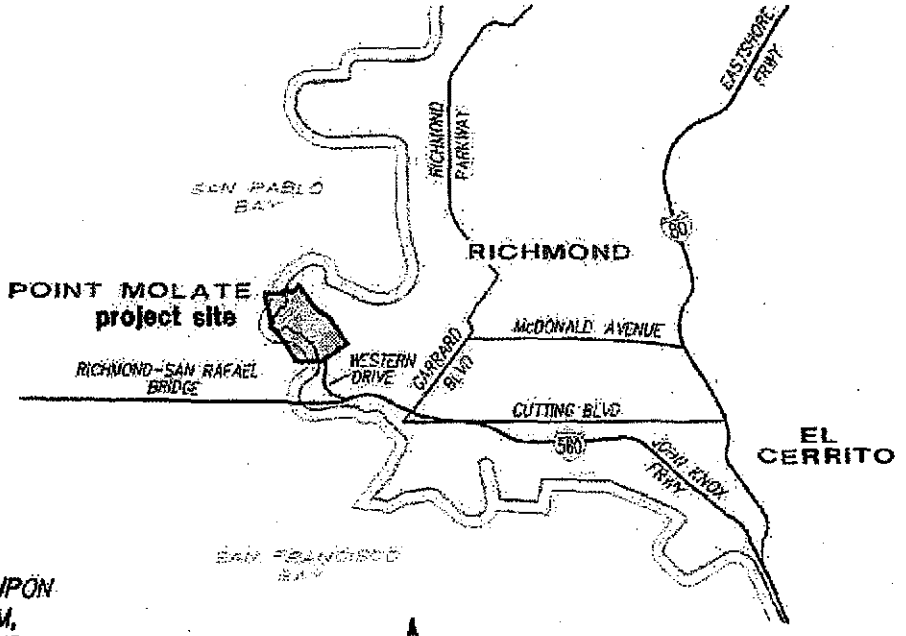
## LEGEND:

———— INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113

**P.O.C.** — INDICATES POINT OF COMMENCEMENT

**P.O.B.** — INDICATES POINT OF BEGINNING

— INDICATES PARCEL AREA 27.570 ACRES (GROUND UNITS), MORE OR LESS




N

VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

9/11/2003

GARY L. HUS, L.S. 7019 DATE
REGISTRATION EXPIRES 6/30/2006

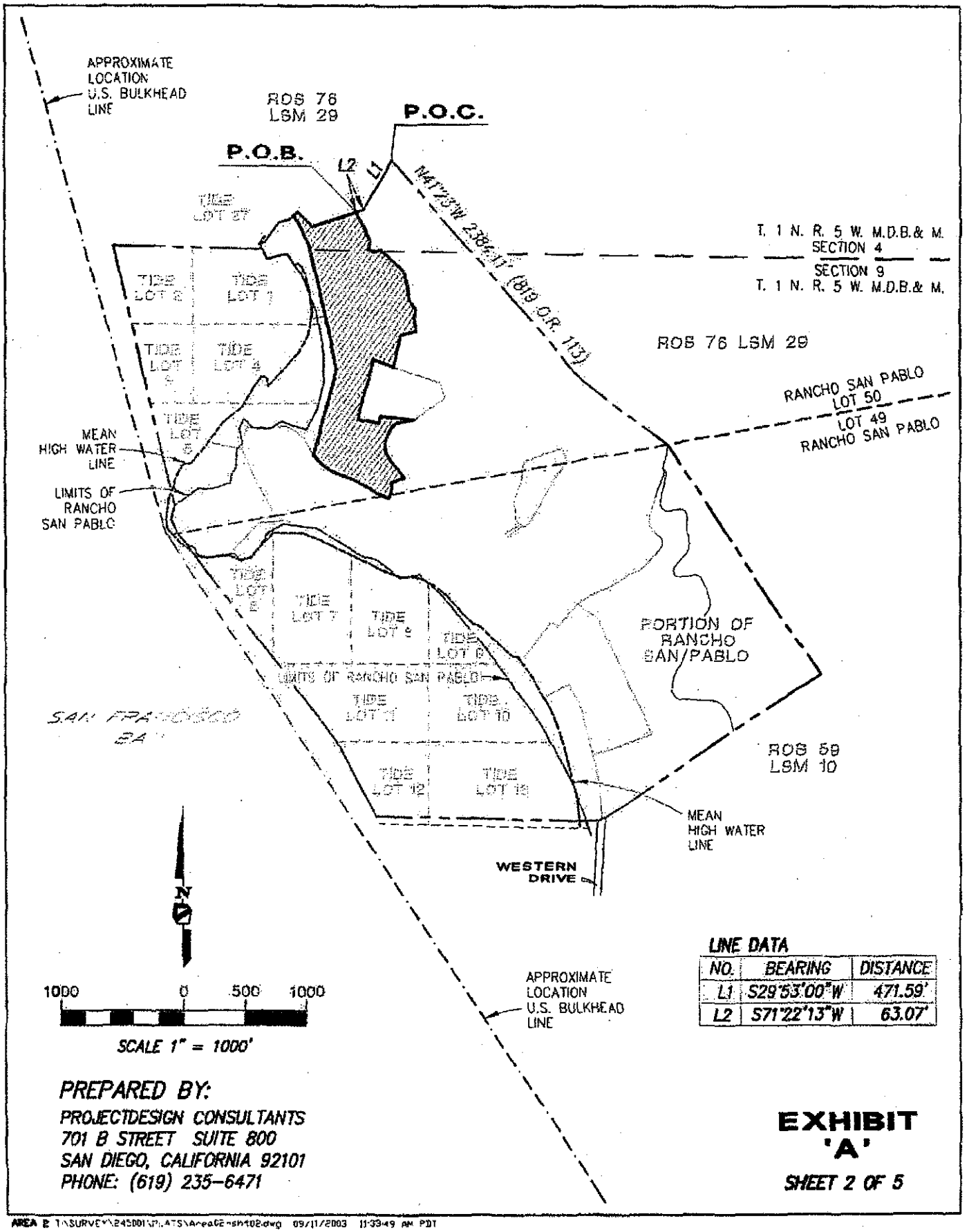
LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
TOWN
DATE 9/17/03

**EXHIBIT 'A'**

SHEET 1 OF 5

AREA B T:\SURVEY\24500\PLATS\Area02-sht01.dwg 09/11/2003 11:33:06 AM PDT




**LINE DATA**

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | S29°53'00"W | 471.59' |
| L2 | S71°22'13"W | 63.07' |

**PREPARED BY:**

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
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# EXHIBIT 'A'

SHEET 2 OF 5

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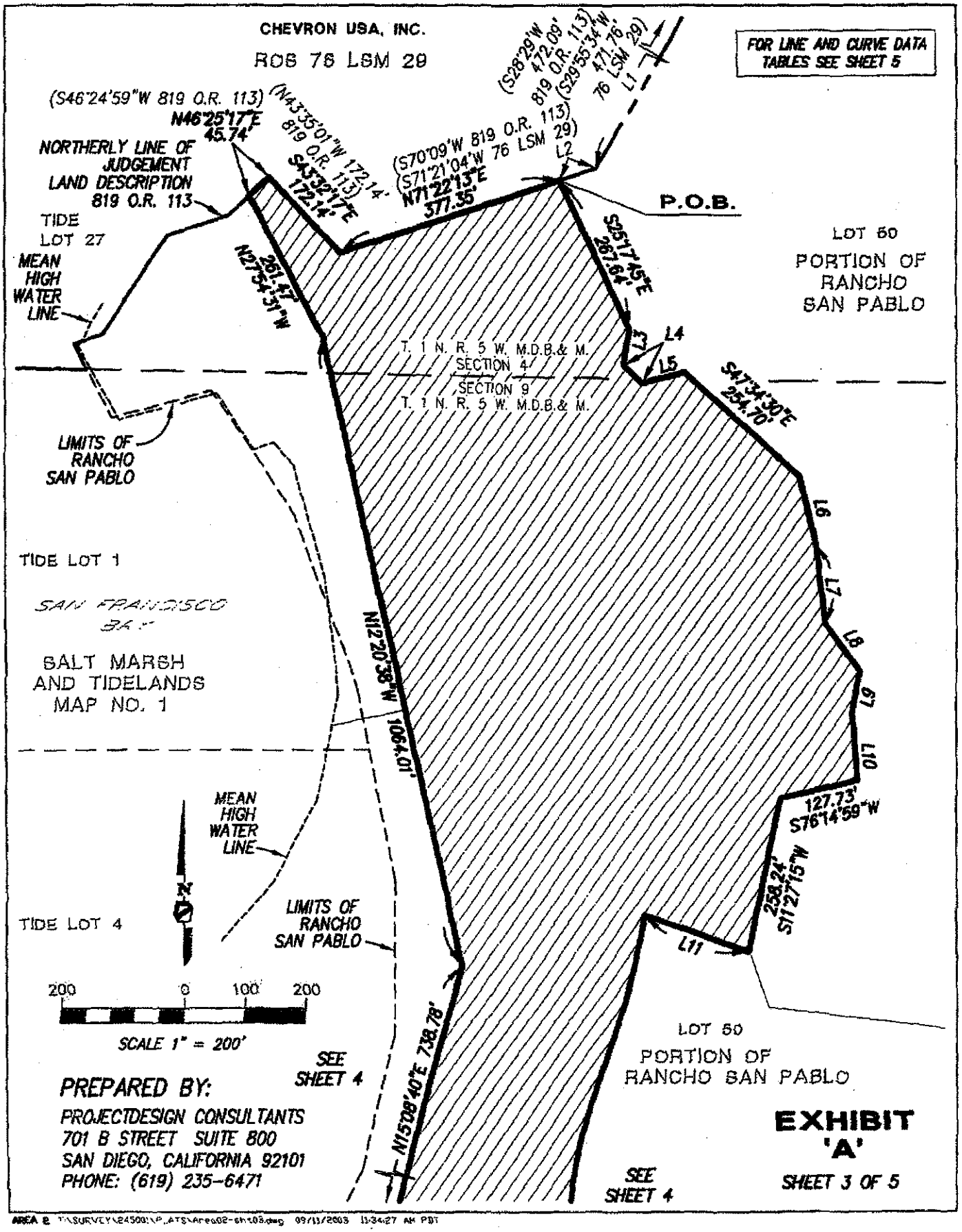


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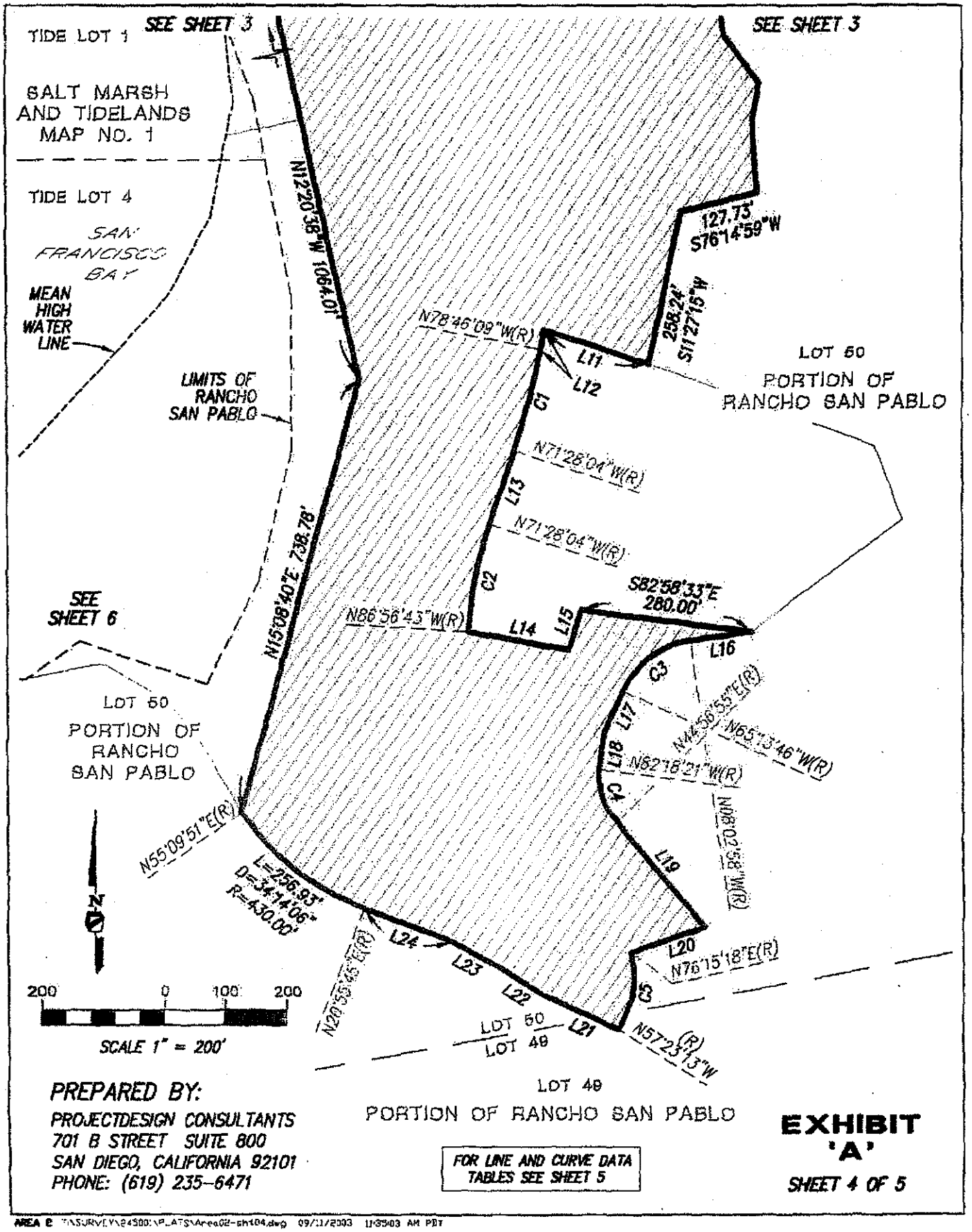


AREA E I:\SURVEY\24500\PLATS\Area02-sh104.dwg 09/11/2003 11:35:03 AM PDT

# DATA TABLE SHEET

**LINE DATA**

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | S29°53'00"W | 471.59' |
| L2 | S71°22'13"W | 63.07' |
| L3 | S07°40'45"W | 61.66' |
| L4 | S46°08'57"E | 42.41' |
| L5 | N75°25'10"E | 70.85' |
| L6 | S13°02'37"E | 114.61' |
| L7 | S07°07'00"E | 135.33' |
| L8 | S36°04'45"E | 96.57' |
| L9 | S10°11'53"W | 68.52' |
| L10 | S04°08'39"E | 111.83' |
| L11 | N71°04'34"W | 181.62' |
| L12 | S09°35'56"W | 33.95' |
| L13 | S18°31'56"W | 128.64' |
| L14 | S79°56'50"E | 166.58' |
| L15 | N18°31'56"E | 66.63' |
| L16 | S81°57'02"W | 100.96' |
| L17 | S24°46'14"W | 74.39' |
| L18 | S07°41'39"W | 62.05' |
| L19 | S39°44'49"E | 225.91' |
| L20 | S70°43'29"W | 128.32' |
| L21 | N64°56'55"W | 134.85' |
| L22 | N57°49'26"W | 76.92' |
| L23 | N60°16'28"W | 97.18' |
| L24 | N69°04'15"W | 154.37' |

**CURVE DATA**

| NO. | RADIUS | DELTA | ARC |
|---|---|---|---|
| C1 | 1355.00' | 07°18'05" | 172.67' |
| C2 | 663.00' | 15°28'39" | 179.10' |
| C3 | 143.00' | 57°10'49" | 142.71' |
| C4 | 104.00' | 52°44'45" | 95.74' |
| C5 | 165.00' | 46°21'29" | 133.50' |


*PREPARED BY:*

*PROJECTDESIGN CONSULTANTS*
*701 B STREET SUITE 800*
*SAN DIEGO, CALIFORNIA 92101*
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**EXHIBIT 'A'**




AREA 2 I:\SURVEY\24500\PL47S\Area02-sht05.dwg 09/11/2003 11:35:42 AM PDT

AREA 3

**LEGAL DESCRIPTION**

A PORTION OF TIDE LOTS 1, 4 AND 5 AS DESIGNATED ON THE MAP ENTITLED "MAP NO. 1, SALT MARSH AND TIDE LANDS SITUATE IN COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, 1872", AND A PORTION OF LOT 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT POINT AT THE SOUTHWESTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113, HAVING A BEARING OF SOUTH 29°53'00" WEST, 472.09 FEET (SOUTH 28°29' WEST, 472.09 FEET, 819 O.R. 113), (SOUTH 29°55'34" WEST, 471.76 FEET, 76 LSM 29), SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 76 LSM 29, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE ON A RANDOM LINE SOUTH 19°16'00" WEST, 946.06 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 12°20'38" EAST, 434.88 FEET; THENCE SOUTH 15°08'40" WEST, 738.78 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 408.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 55°09'51" WEST; THENCE NORTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 10°52'55", 77.49 FEET TO THE BEGINNING OF A REVERSE CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 328.00 FEET, A RADIAL LINE TO SAID BEGINNING BEARS NORTH 66°02'47" EAST; THENCE NORTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 30°18'22", 173.49 FEET TO A POINT OF COMPOUND CURVATURE WITH A CURVE CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 417.50 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 35°44'25" EAST; THENCE NORTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 11°32'55", 84.15 FEET TO A POINT OF COMPOUND CURVATURE WITH A CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 30.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 24°11'30" EAST; THENCE WESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 35°32'48", 18.61 FEET; THENCE TANGENT TO SAID CURVE SOUTH 78°38'41" WEST, 162.93 FEET; THENCE NORTH 85°57'01" WEST, 70.92 FEET; THENCE NORTH 61°03'30" WEST, 24.78 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 43.00 FEET; THENCE WESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 92°39'22", 69.54 FEET; THENCE NON-TANGENT TO SAID CURVE SOUTH 26°17'09" WEST, 20.33 FEET; THENCE SOUTH 12°59'56"

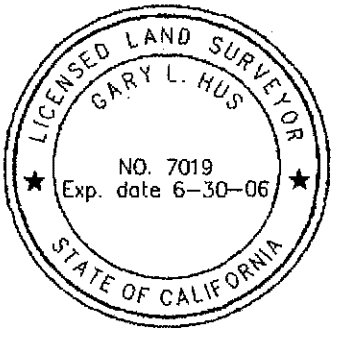
WEST, 147.72 FEET; THENCE NORTH 78°23'38" WEST, 144.84 FEET; THENCE SOUTH 11°36'22" WEST, 5.21 FEET; THENCE NORTH 76°04'00" WEST, 128.24 FEET TO THE MEAN HIGH WATER LINE ON THE SAN FRANCISCO BAY, SAID MEAN HIGH WATER LINE SET AT 2.62 FEET, SEA LEVEL DATUM OF 1929, AS SAID ELEVATION IS DETERMINED FROM TIDAL BENCH MARK NO. 5 HAVING NATIONAL OCEAN SURVEY PID NO. HT0935; THENCE ALONG SAID MEAN HIGH WATER LINE THE FOLLOWING COURSES: NORTH 36°37'57" EAST, 209.19 FEET; THENCE NORTH 48°37'33" EAST, 202.39 FEET; THENCE NORTH 28°47'25" EAST, 184.87 FEET; THENCE NORTH 37°00'56" EAST, 110.11 FEET; THENCE SOUTH 78°46'11" EAST, 44.55 FEET; THENCE SOUTH 09°20'11" EAST, 73.63 FEET; THENCE NORTH 42°49'56" EAST, 247.64 FEET; THENCE NORTH 41°28'20" EAST, 125.88 FEET; THENCE NORTH 28°14'49" EAST, 152.33 FEET; THENCE NORTH 11°26'02" EAST, 130.12 FEET; THENCE LEAVING SAID MEAN HIGH WATER LINE NORTH 77°39'22" EAST, 123.91 FEET TO THE **POINT OF BEGINNING**.

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 6, ADJUSTMENT, NAD-83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 11.156 ACRES (GROUND UNITS), MORE OR LESS.

5/9/03

GARY L. HUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006




CPC
DATE 5-12-03

## LEGAL DESCRIPTION:

A PORTION OF TIDE LOTS 1, 4 AND 5 AS DESIGNATED ON THE MAP ENTITLED "MAP NO. 1, SALT MARSH AND TIDE LANDS SITUATE IN COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, 1872" AND A PORTION OF LOT 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

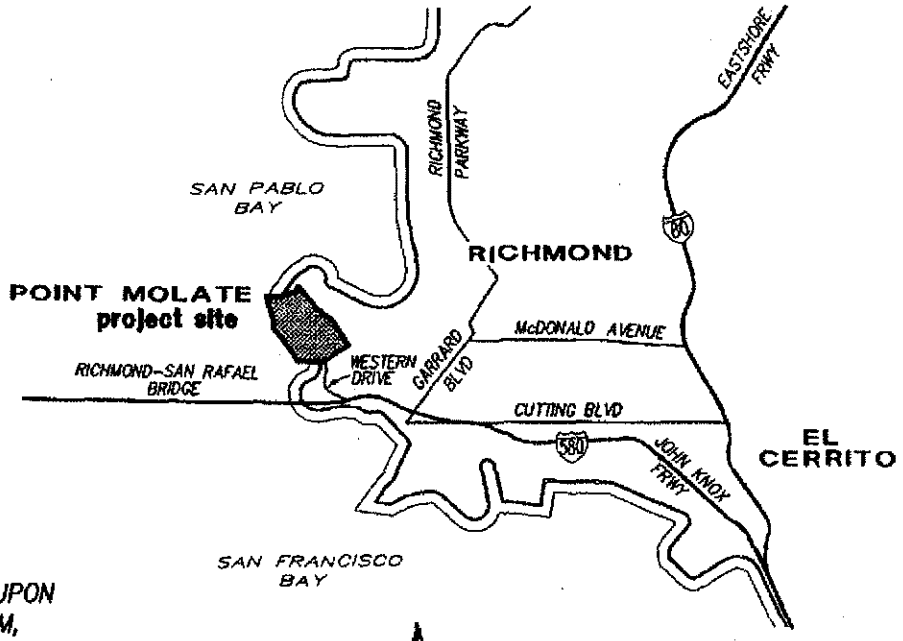
## LEGEND:

_____ _ _ _____ INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113

**P.O.C.** ___ INDICATES POINT OF COMMENCEMENT

**P.O.B.** ___ INDICATES POINT OF BEGINNING

___ INDICATES PARCEL AREA 11.156 ACRES (GROUND UNITS), MORE OR LESS




VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

APPROVED BY
CPC
DATE 5-12-03

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

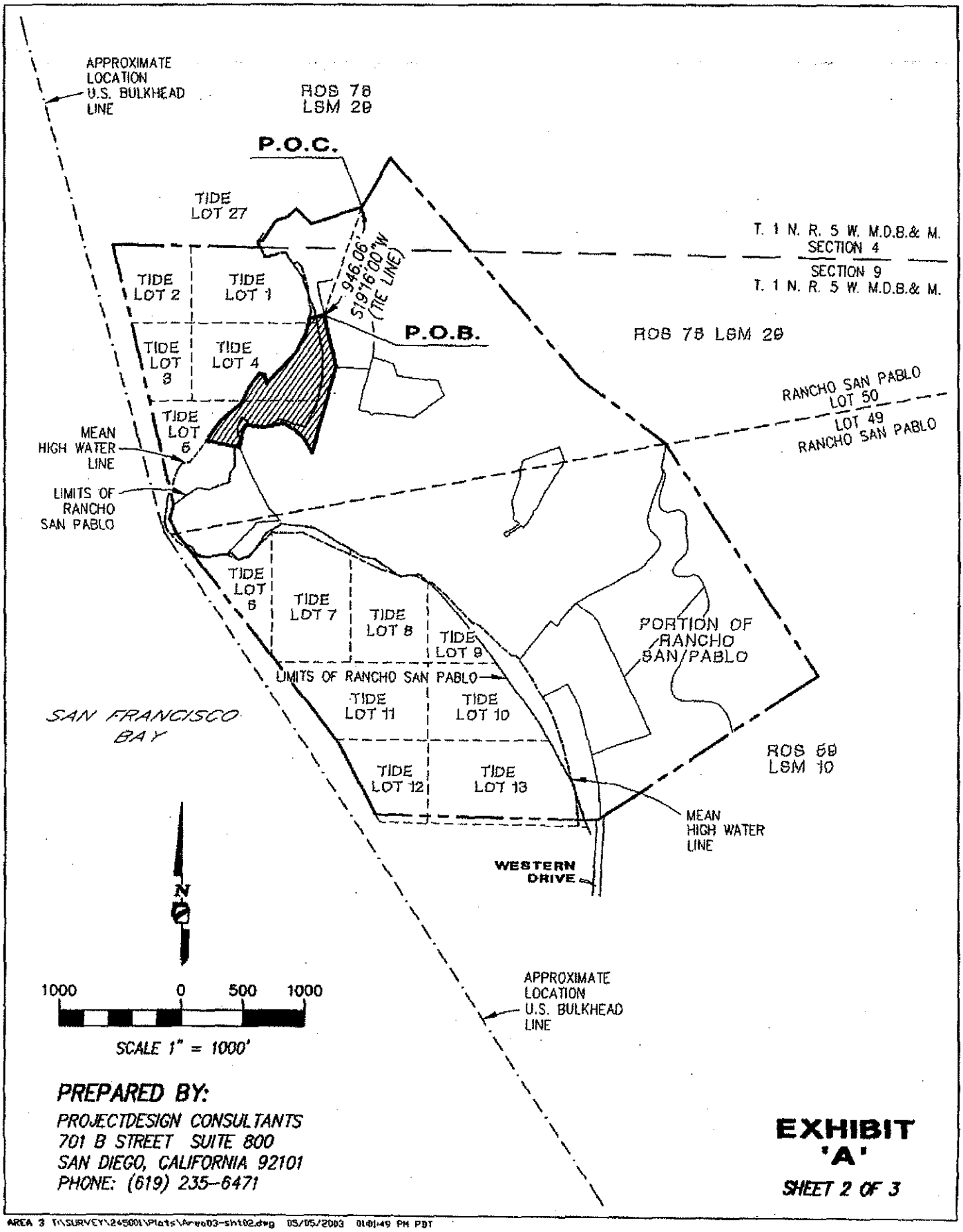
LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

5/8/03
GARY L. HUS, L.S. 7019 DATE
REGISTRATION EXPIRES 6/30/2006

**EXHIBIT 'A'**

SHEET 1 OF 3

AREA 3 I:\SURVEY\245001\Plats\Area03-sht01.dwg 05/05/2003 01:00:36 PM PDT



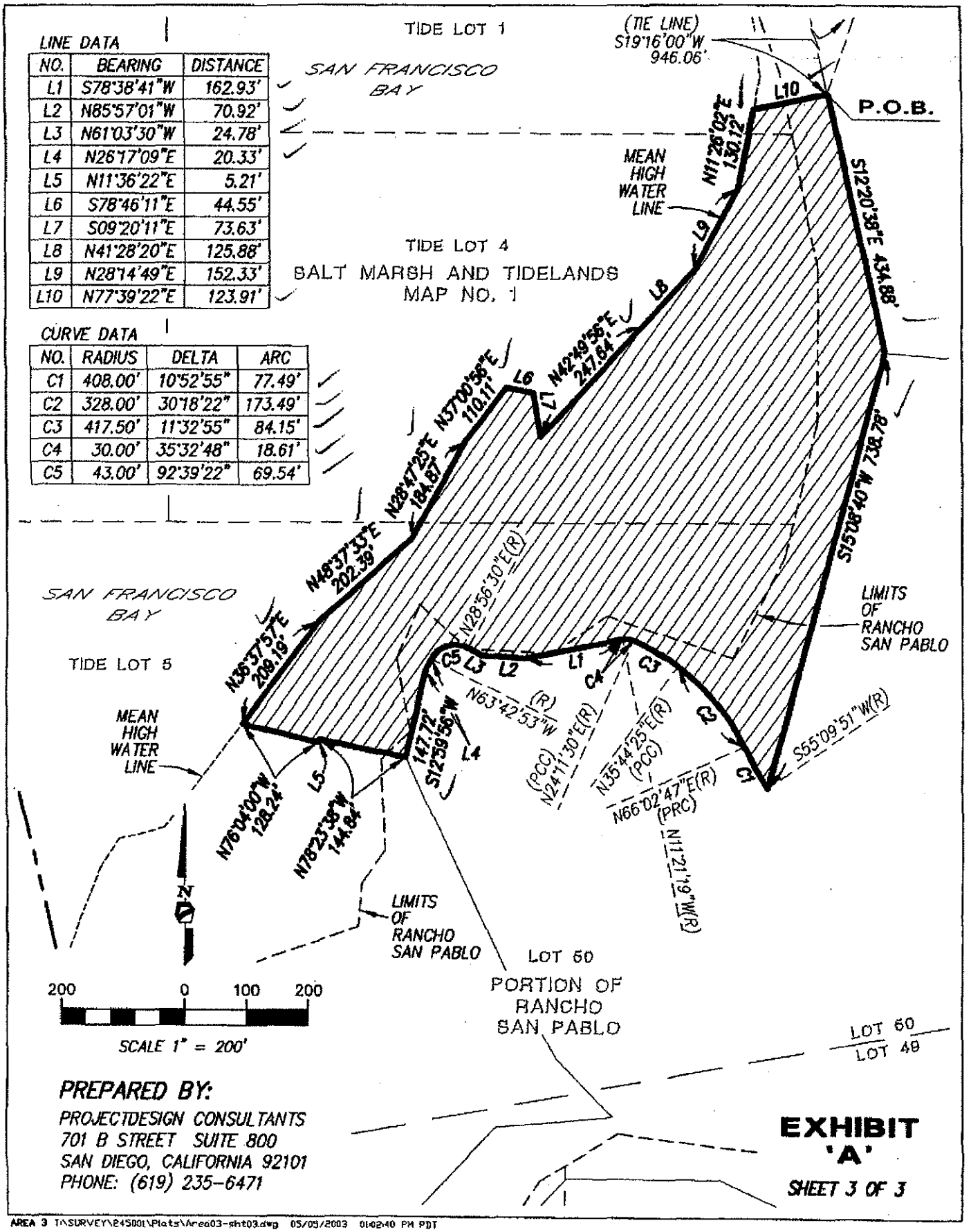

**PREPARED BY:**

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

**EXHIBIT 'A'**

SHEET 2 OF 3

AREA 3 T:\SURVEY\245001\Plats\Area03-sht02.dwg 05/05/2003 01:01:49 PM PDT




LINE DATA

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | S78°38'41"W | 162.93' |
| L2 | N85°57'01"W | 70.92' |
| L3 | N61°03'30"W | 24.78' |
| L4 | N26°17'09"E | 20.33' |
| L5 | N11°36'22"E | 5.21' |
| L6 | S78°46'11"E | 44.55' |
| L7 | S09°20'11"E | 73.63' |
| L8 | N41°28'20"E | 125.88' |
| L9 | N28°14'49"E | 152.33' |
| L10 | N77°39'22"E | 123.91' |

CURVE DATA

| NO. | RADIUS | DELTA | ARC |
|---|---|---|---|
| C1 | 408.00' | 10°52'55" | 77.49' |
| C2 | 328.00' | 30°18'22" | 173.49' |
| C3 | 417.50' | 11°32'55" | 84.15' |
| C4 | 30.00' | 35°32'48" | 18.61' |
| C5 | 43.00' | 92°39'22" | 69.54' |

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PHONE: (619) 235-6471

**EXHIBIT 'A'**

SHEET 3 OF 3

AREA 5

**LEGAL DESCRIPTION**

A PORTION OF LOT 49, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT AT THE SOUTHEASTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113, HAVING A BEARING OF NORTH 34°37' WEST, 2267.73 FEET, SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 59 LSM 10, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE ALONG SAID JUDGMENT, TRACT IV SOUTHERLY BOUNDARY, SOUTH 56°35'43" WEST (NO BEARING GIVEN, 819 O.R. 113), 2132.76 FEET TO THE INTERSECTION WITH THE CENTERLINE OF WESTERN AVENUE (60.00 FEET WIDE) AND MONUMENTED BY A FOUND STANDARD CENTERLINE WELL MONUMENT AS REFERENCED PER SAID RECORD OF SURVEY 59 LSM 10 (NORTH 56°35'11" EAST, 2132.81 FEET, 59 LSM 10); THENCE LEAVING SAID SOUTHERLY BOUNDARY ALONG THE FOLLOWING COURSES: NORTH 04°45'04" WEST, 193.06 FEET; THENCE NORTH 03°33'03" WEST, 99.20 FEET; THENCE NORTH 13°25'51" WEST, 232.11 FEET; THENCE NORTH 14°24'44" WEST, 0.99 FEET TO THE **POINT OF BEGINNING**; THENCE NORTH 14°24'44" WEST, 272.43 FEET; THENCE NORTH 14°24'33" WEST, 112.62 FEET; THENCE NORTH 25°44'33" WEST, 125.93 FEET; THENCE NORTH 25°45'03" WEST, 101.82 FEET; THENCE SOUTH 63°01'20" WEST, 233.73 FEET TO THE MEAN HIGH WATER LINE ON THE SAN FRANCISCO BAY, SAID MEAN HIGH WATER LINE SET AT 2.62 FEET, SEA LEVEL DATUM OF 1929, AS SAID ELEVATION IS DETERMINED FROM TIDAL BENCH MARK NO. 5 HAVING NATIONAL OCEAN SURVEY PID NO. HT0935; THENCE ALONG SAID MEAN HIGH WATER LINE THE FOLLOWING MEANDERED COURSES: NORTH 31°06'20" WEST, 16.87 FEET; THENCE NORTH 29°09'30" WEST, 164.48 FEET; THENCE NORTH 34°19'53" WEST, 176.16 FEET; THENCE LEAVING SAID MEAN HIGH WATER LINE NORTH 37°57'20" EAST, 412.80 FEET; THENCE SOUTH 52°02'40" EAST, 66.64 FEET; THENCE NORTH 37°57'20" EAST, 164.93 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 400.00 FEET; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 11°34'12", 80.77 FEET; THENCE NON-TANGENT TO SAID CURVE SOUTH 49°58'29" EAST, 78.77 FEET; THENCE SOUTH 57°21'59" EAST, 37.63 FEET; THENCE SOUTH 59°12'51" EAST, 44.07 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE

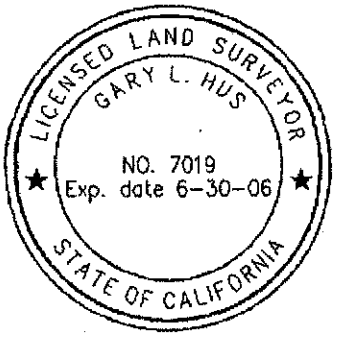
SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 34°02'22", 59.41 FEET; THENCE TANGENT TO SAID CURVE SOUTH 25°10'29" EAST, 1040.69 FEET; THENCE SOUTH 71°30'54" WEST, 275.64 FEET; THENCE SOUTH 69°43'54" WEST, 237.53 FEET TO THE **POINT OF BEGINNING**.

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 14.372 ACRES (GROUND UNITS), MORE OR LESS.

5/9/03

GARY L. HUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006




APPROVED BY
CPC
DATE 5-12-03

## LEGAL DESCRIPTION:

A PORTION OF LOT 49, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

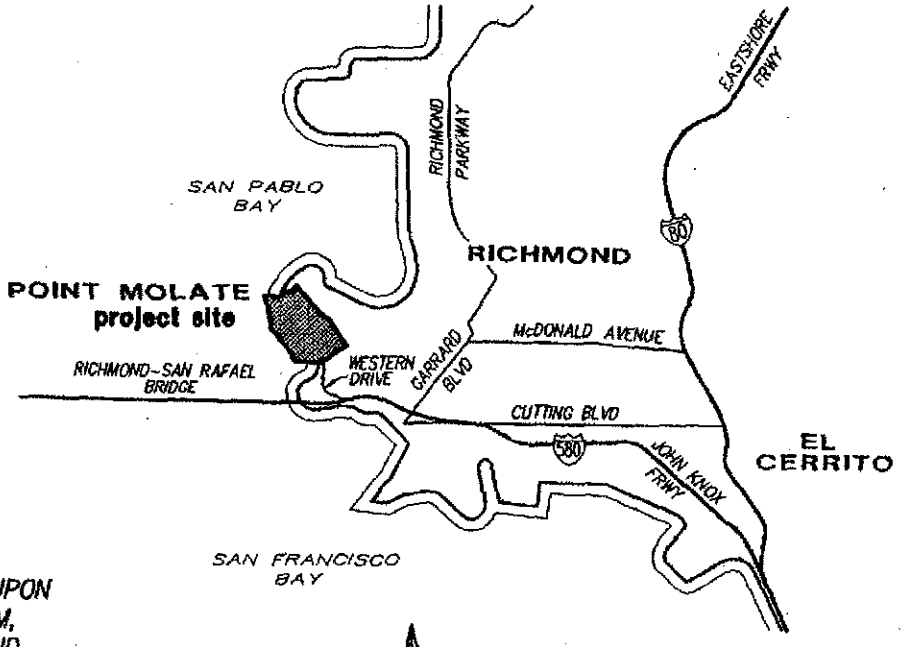
## LEGEND:

———— INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113

**P.O.C.** ___ INDICATES POINT OF COMMENCEMENT

**P.O.B.** ___ INDICATES POINT OF BEGINNING

___ INDICATES PARCEL AREA 14.372 ACRES (GROUND UNITS), MORE OR LESS




VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

5/9/03

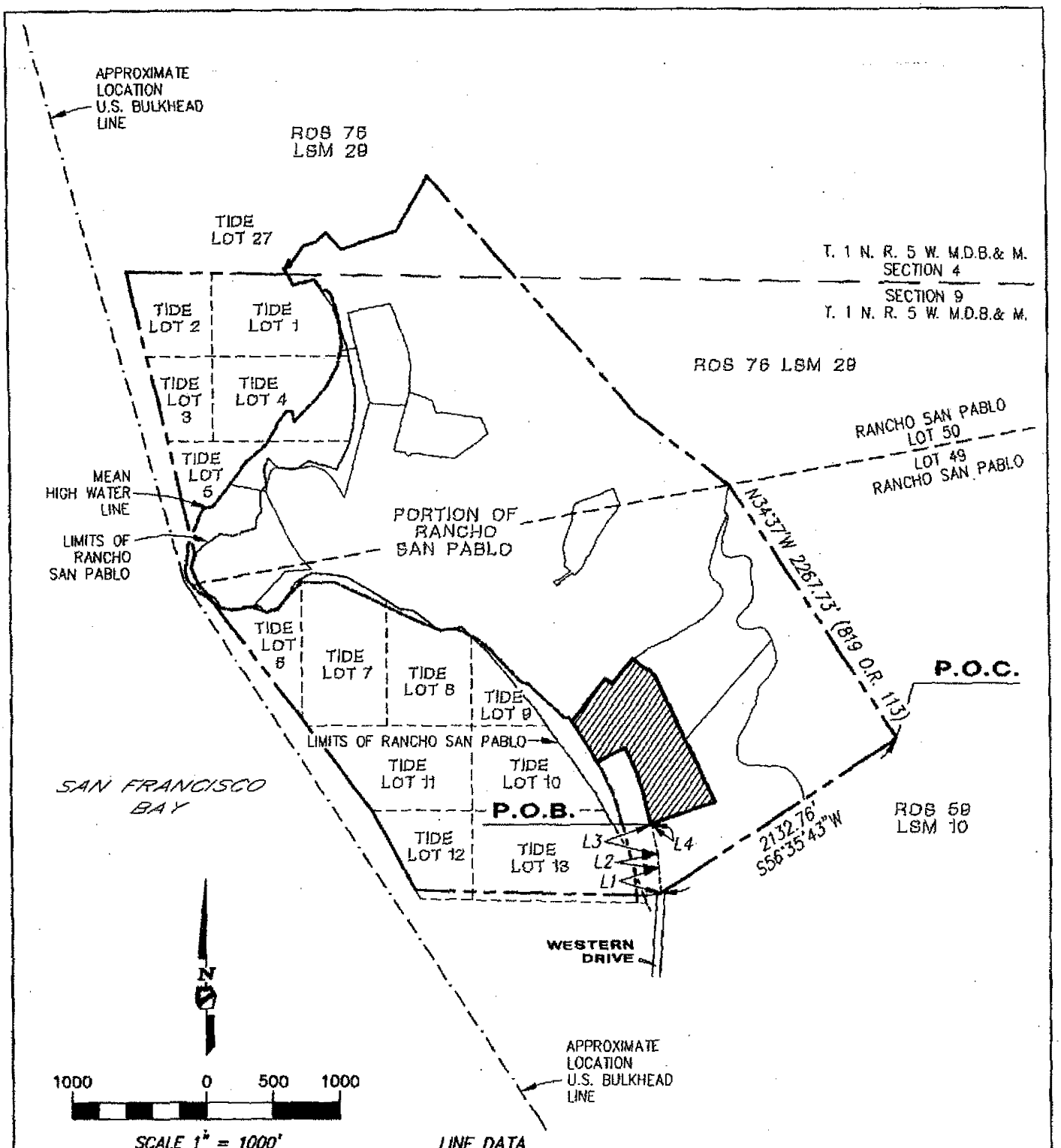
GARY L. HUS, L.S. 7019 DATE
REGISTRATION EXPIRES 6/30/2006

LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

CPC
5-12-03

**EXHIBIT 'A'**

SHEET 1 OF 3




SCALE 1" = 1000'

LINE DATA

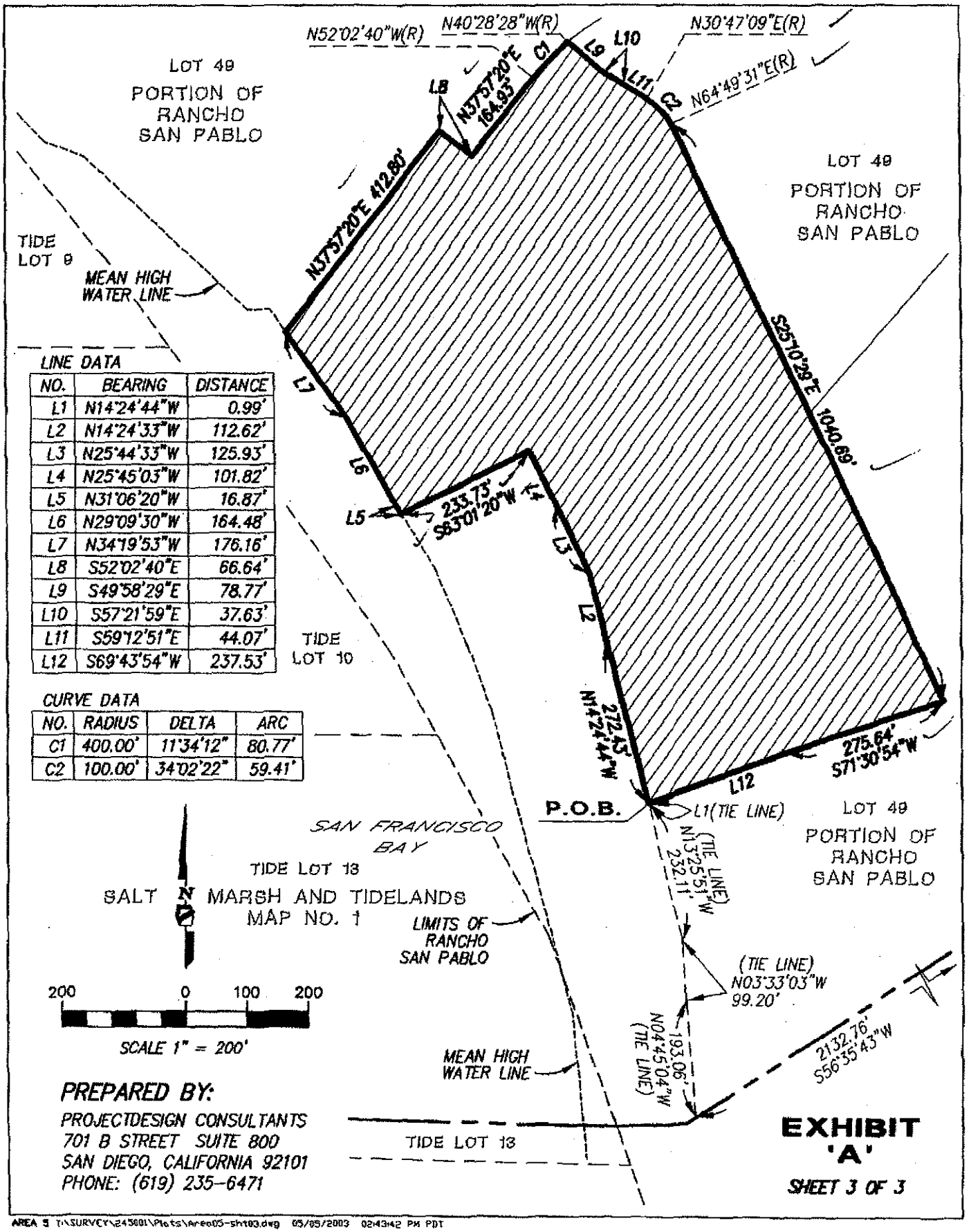
| NO. | BEARING | DISTANCE (TIE LINE) |
|---|---|---|
| L1 | N04°45'04"W | 193.06' |
| L2 | N03°33'03"W | 99.20' |
| L3 | N13°25'51"W | 232.11' |
| L4 | N14°24'44"W | 0.99' |


**PREPARED BY:**

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471


**EXHIBIT 'A'**

SHEET 2 OF 3




LINE DATA

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | N14°24'44"W | 0.99' |
| L2 | N14°24'33"W | 112.62' |
| L3 | N25°44'33"W | 125.93' |
| L4 | N25°45'03"W | 101.82' |
| L5 | N31°06'20"W | 16.87' |
| L6 | N29°09'30"W | 164.48' |
| L7 | N34°19'53"W | 176.16' |
| L8 | S52°02'40"E | 66.64' |
| L9 | S49°58'29"E | 78.77' |
| L10 | S57°21'59"E | 37.63' |
| L11 | S59°12'51"E | 44.07' |
| L12 | S69°43'54"W | 237.53' |

CURVE DATA

| NO. | RADIUS | DELTA | ARC |
|---|---|---|---|
| C1 | 400.00' | 11°34'12" | 80.77' |
| C2 | 100.00' | 34°02'22" | 59.41' |

**PREPARED BY:**

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

**EXHIBIT 'A'**

SHEET 3 OF 3

AREA 9 T:\SURVEY\245001\Plots\Area05-sht03.dwg 05/05/2003 02:43:42 PM PDT

**LEGAL DESCRIPTION**

AREA 6

A PORTION OF LOT 49, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT AT THE SOUTHEASTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113, HAVING A BEARING OF NORTH 34°37' WEST, 2267.73 FEET, SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 59 LSM 10, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE ALONG SAID JUDGMENT, TRACT IV SOUTHERLY BOUNDARY LINE, SOUTH 56°35'43" WEST (NO BEARING GIVEN, 819 O.R. 113), 819.39 FEET, (NORTH 56°35'11" EAST, 2132.81 FEET, 59 LSM 10) TO THE **POINT OF BEGINNING**; THENCE CONTINUING ALONG SAID SOUTHERLY BOUNDARY LINE SOUTH 56°35'43" WEST, 1313.37 FEET TO THE INTERSECTION OF THE CENTERLINE OF WESTERN DRIVE (60.00 FEET WIDE) AS MONUMENTED BY A FOUND STANDARD CENTERLINE WELL MONUMENT AS REFERENCED PER SAID RECORD OF SURVEY 59 LSM 10; THENCE LEAVING SAID SOUTHERLY BOUNDARY LINE NORTH 04°45'04" WEST, 193.06 FEET; THENCE NORTH 03°33'03" WEST, 99.20 FEET; THENCE NORTH 13°25'51" WEST, 232.11 FEET; THENCE NORTH 69°29'38" EAST, 237.63 FEET; THENCE NORTH 71°30'54" EAST, 275.64 FEET; THENCE NORTH 25°10'29" WEST, 1040.69 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE NORTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 34°02'22", 59.41 FEET; THENCE TANGENT TO SAID CURVE NORTH 59°12'51" WEST, 44.07 FEET; THENCE NORTH 57°21'59" WEST, 37.63 FEET; THENCE NORTH 49°58'29" WEST, 78.77 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 400.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 40°28'28" WEST; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 14°41'14", 102.54 FEET; THENCE TANGENT TO SAID CURVE NORTH 64°12'46" EAST, 132.36 FEET; THENCE NORTH 67°50'38" EAST, 67.70 FEET; THENCE NORTH 59°18'57" EAST, 71.64 FEET; THENCE NORTH 52°07'01" EAST, 32.87 FEET; THENCE NORTH 59°28'19" EAST, 84.03 FEET; THENCE NORTH

67°14'41" EAST, 74.63 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 22°27'57", 39.21 FEET; THENCE TANGENT TO SAID CURVE NORTH 44°46'44" EAST, 116.90 FEET; THENCE NORTH 40°41'18" EAST, 94.32 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 70.00 FEET; THENCE NORTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 95°17'30", 116.42 FEET; THENCE TANGENT TO SAID CURVE NORTH 54°36'12" WEST, 35.12 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE EASTERLY AND HAVING A RADIUS OF 125.00 FEET; THENCE NORTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 72°18'17", 157.74 FEET; THENCE TANGENT TO SAID CURVE NORTH 17°42'05" EAST, 88.41 FEET; THENCE NORTH 14°17'59" EAST, 47.90 FEET; THENCE NORTH 20°08'57" EAST, 130.90 FEET; THENCE NORTH 23°35'32" EAST, 96.01 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 55.00 FEET; THENCE NORTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 63°11'48", 60.66 FEET TO A POINT OF CUSP; THENCE NON-TANGENT TO SAID CURVE SOUTH 39°36'17" EAST, 29.14 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 45.00 FEET; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 54°54'22", 43.12 FEET; THENCE TANGENT TO SAID CURVE SOUTH 15°18'04" WEST, 93.98 FEET; THENCE SOUTH 15°03'00" WEST, 74.96 FEET; THENCE SOUTH 08°47'33" WEST, 35.96 FEET; THENCE SOUTH 02°52'32" WEST, 27.40 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 66.00 FEET; THENCE SOUTHERLY AND SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 91°58'14", 105.94 FEET; THENCE TANGENT TO SAID CURVE SOUTH 89°05'42" EAST, 7.48 FEET; THENCE NORTH 77°29'21" EAST, 73.34 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 67.00 FEET; THENCE EASTERLY AND SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 106°10'01", 124.15 FEET; THENCE TANGENT TO SAID CURVE SOUTH 03°39'21" WEST, 79.11 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE EASTERLY AND HAVING A RADIUS OF 125.00 FEET; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 11°34'41", 25.26 FEET; THENCE TANGENT TO SAID CURVE SOUTH 07°55'20" EAST, 112.11 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE SOUTHERLY AND SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 58°32'27", 102.17 FEET; THENCE TANGENT TO SAID CURVE SOUTH 50°37'08" WEST, 46.06 FEET; THENCE SOUTH 39°26'46" WEST, 71.81 FEET TO THE BEGINNING OF A TANGENT

CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 50.00 FEET; THENCE SOUTHERLY AND SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 130°03'56", 113.50 FEET; THENCE TANGENT TO SAID CURVE NORTH 89°22'50" EAST, 77.93 FEET; THENCE NORTH 77°03'08" EAST, 54.89 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 35.00 FEET; THENCE EASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 68°24'32", 41.79 FEET; THENCE TANGENT TO SAID CURVE SOUTH 34°32'20" EAST, 59.72 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 18°14'02", 31.82 FEET; THENCE TANGENT TO SAID CURVE SOUTH 16°18'18" EAST, 131.68 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 75.00 FEET; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 50°19'52", 65.88 FEET; THENCE TANGENT TO SAID CURVE SOUTH 34°01'35" WEST, 113.35 FEET; THENCE SOUTH 45°52'06" WEST, 60.64 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE EASTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 59°45'21", 104.29 FEET TO A POINT ON A NON-TANGENT REVERSE CURVE, CONCAVE WESTERLY AND HAVING A RADIUS OF 100.00 FEET, A RADIAL LINE TO SAID POINT BEARS SOUTH 89°22'44" EAST; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 32°10'25", 56.15 FEET; THENCE TANGENT TO SAID CURVE SOUTH 32°47'40" WEST, 52.07 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 13°19'51", 23.27 FEET; THENCE TANGENT TO SAID CURVE SOUTH 19°27'49" WEST, 88.81 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 75.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 13°50'40", 18.12 FEET; THENCE TANGENT TO SAID CURVE SOUTH 33°18'30" WEST, 79.91 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE EASTERLY AND HAVING A RADIUS OF 150.00 FEET; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 32°52'47", 86.08 FEET; THENCE TANGENT TO SAID CURVE SOUTH 00°25'43" WEST, 73.88 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 78.00 FEET; THENCE SOUTHERLY AND SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 88°02'11", 119.85 FEET; THENCE TANGENT TO SAID CURVE SOUTH 87°36'28" EAST, 56.17 FEET; THENCE SOUTH 87°21'51" EAST, 52.03 FEET; THENCE SOUTH 82°10'53" EAST, 48.77 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE EASTERLY, ALONG THE ARC

OF SAID CURVE THROUGH A CENTRAL ANGLE OF 16°15'00", 28.36 FEET; THENCE TANGENT TO SAID CURVE NORTH 81°34'07" EAST, 22.80 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE EASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 35°15'24", 61.53 FEET; THENCE TANGENT TO SAID CURVE SOUTH 63°10'29" EAST, 20.34 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 100.00 FEET; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 15°38'10", 27.29 FEET; THENCE TANGENT TO SAID CURVE SOUTH 47°32'19" EAST, 102.15 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 125.00 FEET; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 29°01'17", 63.31 FEET; THENCE TANGENT TO SAID CURVE SOUTH 18°31'02" EAST, 86.10 FEET TO THE **POINT OF BEGINNING**.

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 31.667 ACRES (GROUND UNITS), MORE OR LESS.

9/11/2003

GARY L. HUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006

LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp date 6-30-06
STATE OF CALIFORNIA

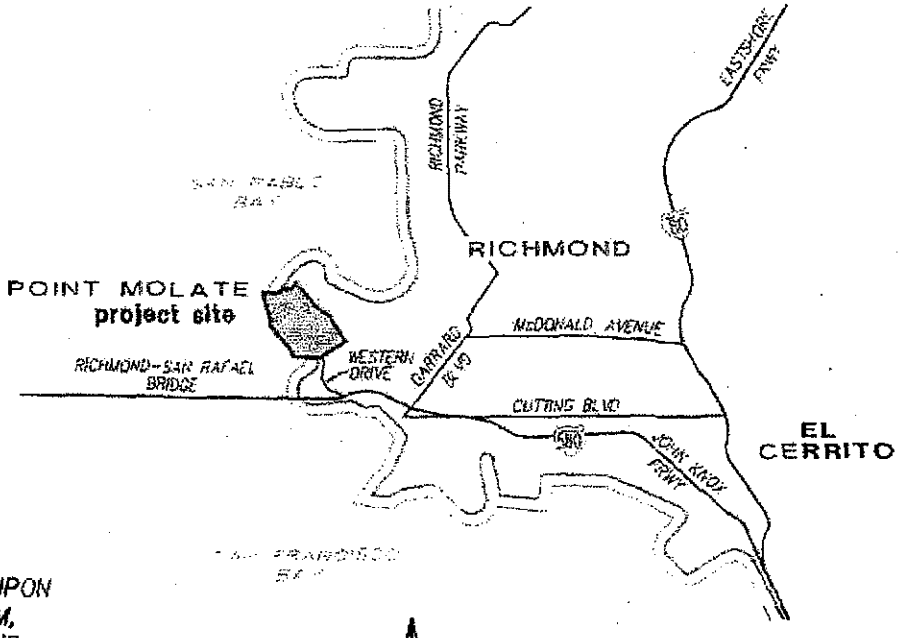
APPROVED BY
DATE 9/12/03

## LEGAL DESCRIPTION:

A PORTION OF LOT 49, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

## LEGEND:

- _ _ _ _ _ INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113
- **P.O.C.** ___ INDICATES POINT OF COMMENCEMENT
- **P.O.B.** ___ INDICATES POINT OF BEGINNING
- ▨ ___ INDICATES PARCEL AREA 31.667 ACRES (GROUND UNITS), MORE OR LESS




N

VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

9/11/2003

GARY L. HUS, L.S. 7019 DATE
REGISTRATION EXPIRES 6/30/2006

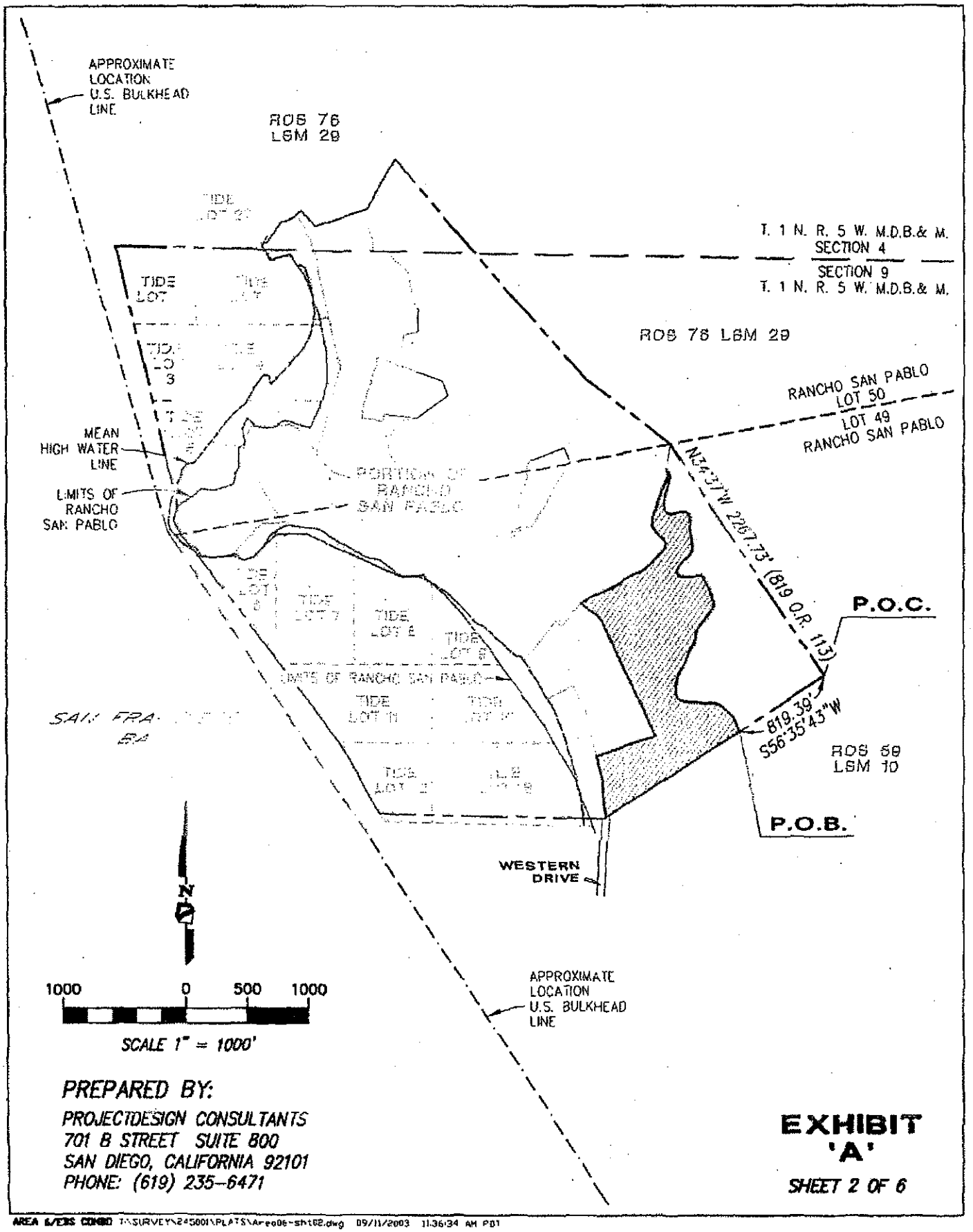
LICENSED LAND SURVEYOR
GARY L HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
DATE 9/11/03

**EXHIBIT 'A'**

SHEET 1 OF 6

AREA &/EBS COMBO T:\SURVEY\P4503\PLATS\Area06-sht01.dwg 09/11/2003 11:36:07 AM PDT




*PREPARED BY:*

*PROJECTDESIGN CONSULTANTS*
*701 B STREET SUITE 800*
*SAN DIEGO, CALIFORNIA 92101*
*PHONE: (619) 235-6471*

**EXHIBIT 'A'**

*SHEET 2 OF 6*

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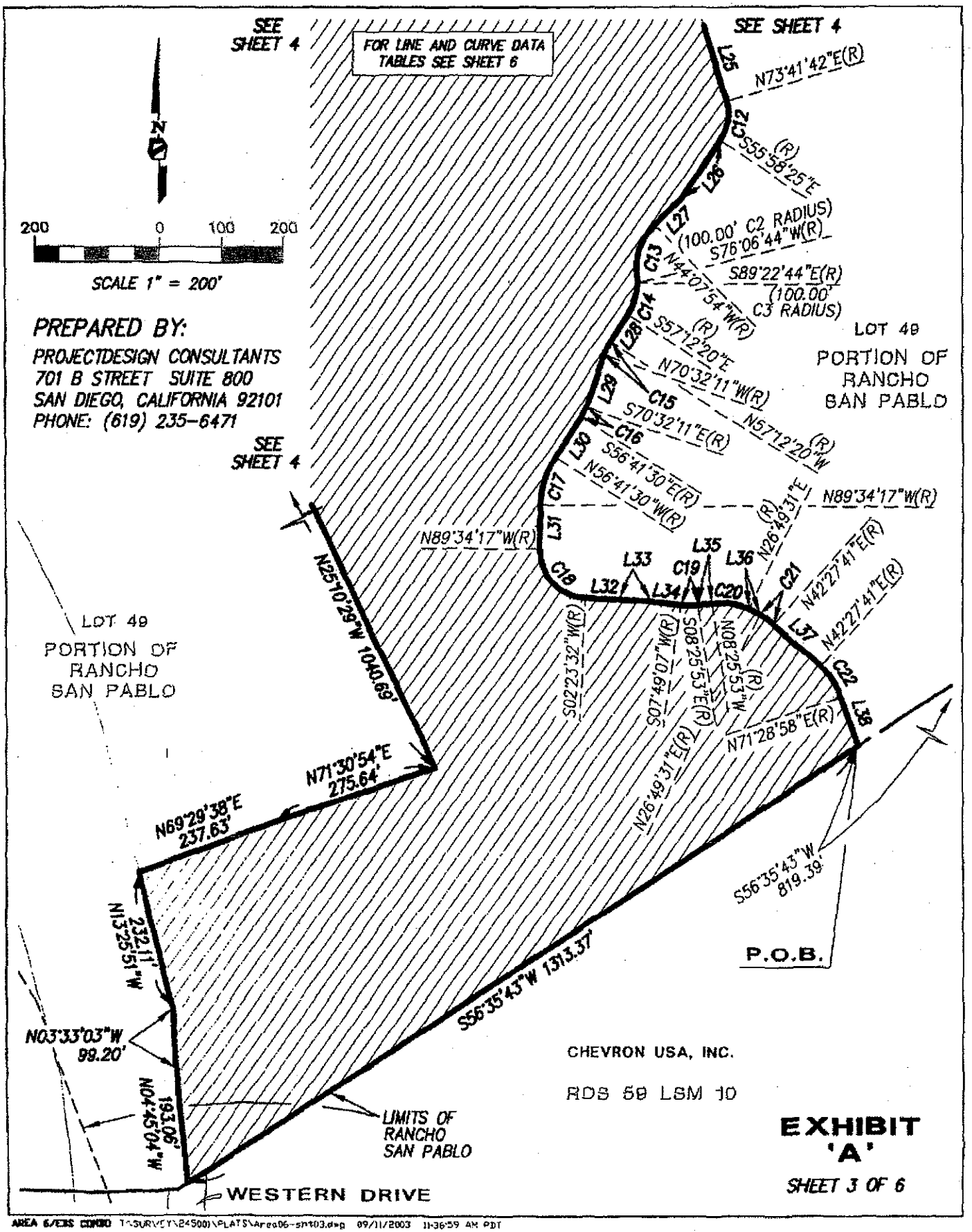


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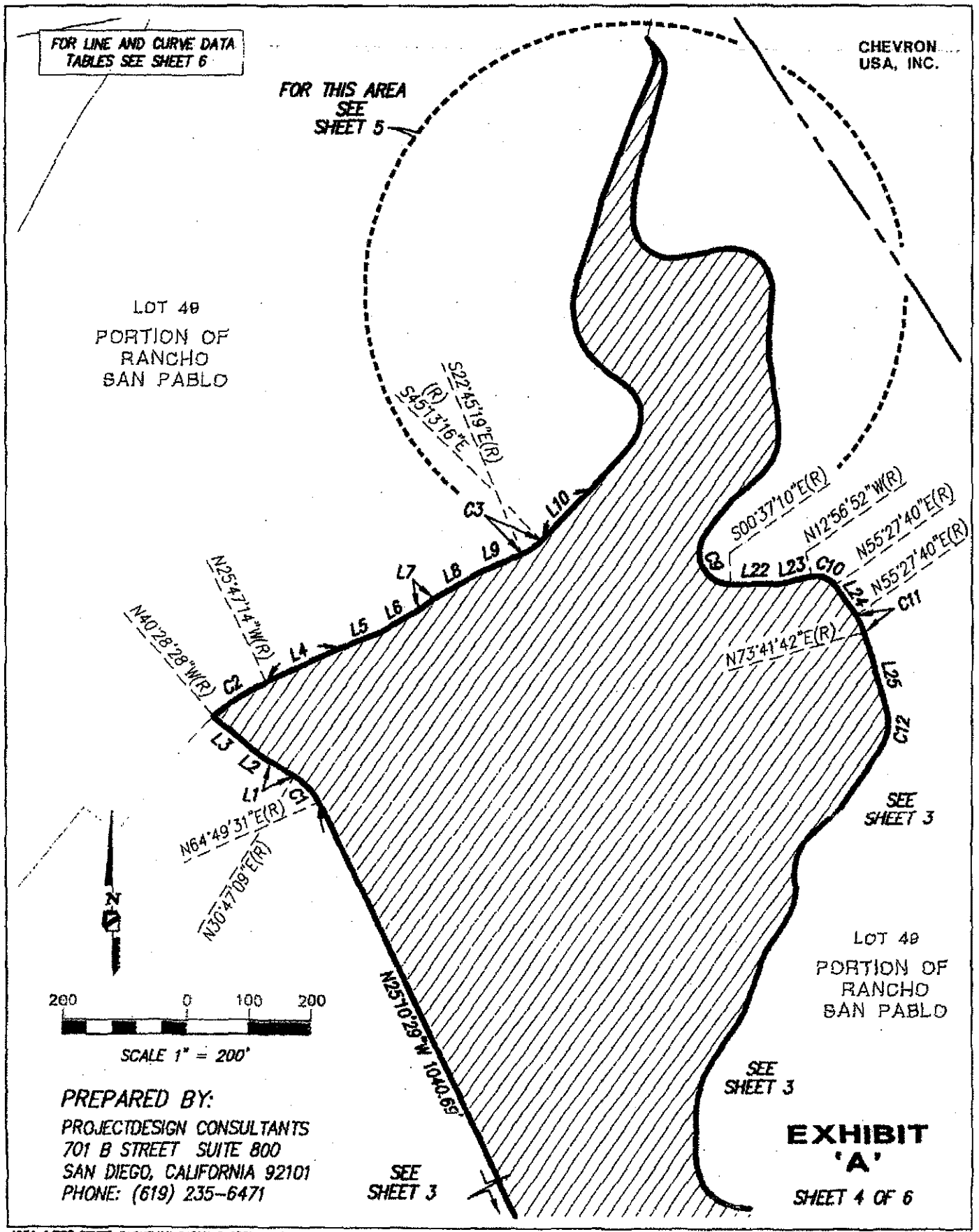


PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
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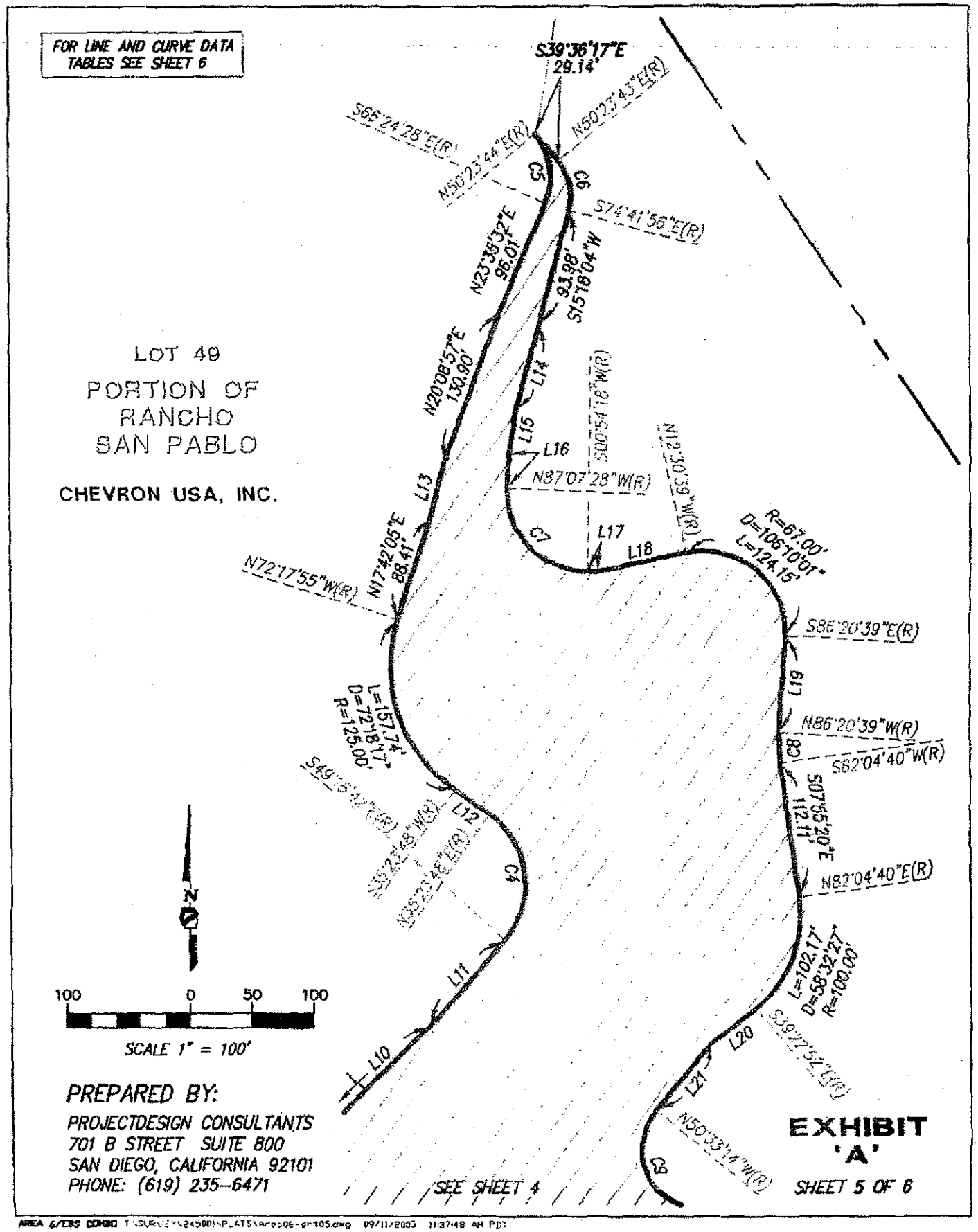
**EXHIBIT 'A'**

SHEET 4 OF 6

AREA 6/EBS CDKBG T:\SURVEY\24500\PLATS\Area06-sht04.dwg 09/11/2003 11:37:23 AM PDT




AREA 6/EBS COMBO T:\SURVEY\24500\PLATS\Area06-sht05.dwg 09/11/2003 11:37:48 AM PDT

# DATA TABLE SHEET

LINE DATA

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | N59°12'51"W | 44.07' |
| L2 | N57°21'59"W | 37.63' |
| L3 | N49°58'29"W | 78.77' |
| L4 | N64°12'46"E | 132.36' |
| L5 | N67°50'38"E | 67.70' |
| L6 | N59°18'57"E | 71.64' |
| L7 | N52°07'01"E | 32.87' |
| L8 | N59°28'19"E | 84.03' |
| L9 | N67°14'41"E | 74.63' |
| L10 | N44°46'44"E | 116.90' |
| L11 | N40°41'18"E | 94.32' |
| L12 | N54°36'12"W | 35.12' |
| L13 | N14°17'59"E | 47.90' |
| L14 | S15°03'00"W | 74.96' |
| L15 | S08°47'33"W | 35.96' |
| L16 | S02°52'32"W | 27.40' |
| L17 | S89°05'42"E | 7.48' |
| L18 | N77°29'21"E | 73.34' |
| L19 | S03°39'21"W | 79.11' |
| L20 | S50°37'08"W | 46.06' |
| L21 | S39°26'46"W | 71.81' |
| L22 | N89°22'50"E | 77.93' |
| L23 | N77°03'08"E | 54.89' |
| L24 | S34°32'20"E | 59.72' |
| L25 | S16°18'18"E | 131.68' |
| L26 | S34°01'35"W | 113.35' |
| L27 | S45°52'06"W | 60.64' |
| L28 | S32°47'40"W | 52.07' |
| L29 | S19°27'49"W | 88.81' |
| L30 | S33°18'30"W | 79.91' |
| L31 | S00°25'43"W | 73.88' |
| L32 | S87°36'28"E | 56.17' |
| L33 | S87°21'51"E | 52.03' |
| L34 | S82°10'53"E | 48.77' |
| L35 | N81°34'07"E | 22.80' |
| L36 | S63°10'29"E | 20.34' |
| L37 | S47°32'19"E | 102.15' |
| L38 | S18°31'02"E | 86.10' |

CURVE DATA

| NO. | RADIUS | DELTA | ARC |
|---|---|---|---|
| C1 | 100.00' | 34°02'22" | 59.41' |
| C2 | 400.00' | 14°41'14" | 102.54' |
| C3 | 100.00' | 22°27'57" | 39.21' |
| C4 | 70.00' | 95°17'30" | 116.42' |
| C5 | 55.00' | 63°11'48" | 60.66' |
| C6 | 45.00' | 54°54'22" | 43.12' |
| C7 | 66.00' | 91°58'14" | 105.94' |
| C8 | 125.00' | 11°34'41" | 25.26' |
| C9 | 50.00' | 130°03'56" | 113.50' |
| C10 | 35.00' | 68°24'32" | 41.79' |
| C11 | 100.00' | 18°14'02" | 31.82' |
| C12 | 75.00' | 50°19'52" | 65.88' |
| C13 | 100.00' | 59°45'21" | 104.29' |
| C14 | 100.00' | 32°10'25" | 56.15' |
| C15 | 100.00' | 13°19'51" | 23.27' |
| C16 | 75.00' | 13°59'40" | 18.12' |
| C17 | 150.00' | 32°52'47" | 86.08' |
| C18 | 78.00' | 88°02'11" | 119.85' |
| C19 | 100.00' | 16°15'00" | 28.36' |
| C20 | 100.00' | 35°15'24" | 61.53' |
| C21 | 100.00' | 15°38'10" | 27.29' |
| C22 | 125.00' | 29°01'17" | 63.31' |


PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471


**EXHIBIT 'A'**



AREA 6/EBS COMBO T:\SURVEY\24500\PLATS\Area06-sht06.dwg 09/11/2003 11:38:13 AM PST

AREA 10

**LEGAL DESCRIPTION**

A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT AT THE SOUTHEASTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113, HAVING A BEARING OF NORTH 40°27'17" WEST, 2383.78 FEET (NORTH 41°23' WEST, 2384.11 FEET, 819 O.R. 113), (NORTH 40°27'00" WEST, 2383.48 FEET, 76 LSM 29), SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 76 LSM 29, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE SOUTH 16°45'48"W, 586.23 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 20°44'41" EAST, 123.09 FEET; THENCE SOUTH 24°43'11" WEST, 46.30 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 885.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 47°57'14" WEST; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 15°05'11", 233.03 FEET; THENCE TANGENT TO SAID CURVE SOUTH 26°57'35" WEST, 175.89 FEET; THENCE SOUTH 46°56'38" WEST, 33.07 FEET; THENCE SOUTH 16°30'48" WEST, 38.48 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 102.00 FEET; THENCE SOUTHWESTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 26°28'08", 47.12 FEET; THENCE TANGENT TO SAID CURVE SOUTH 42°58'56" WEST, 75.20 FEET; THENCE NORTH 47°01'04" WEST, 21.86 FEET; THENCE SOUTH 58°13'55" WEST, 118.19 FEET; THENCE SOUTH 31°46'05" EAST, 10.00 FEET; THENCE SOUTH 58°13'55" WEST, 34.00 FEET; THENCE NORTH 31°46'05" WEST, 36.00 FEET; THENCE NORTH 58°13'55" EAST, 34.00 FEET; THENCE SOUTH 31°46'05" EAST, 6.00 FEET; THENCE NORTH 58°13'55" EAST, 112.74 FEET; THENCE NORTH 47°01'04" WEST, 68.64 FEET; THENCE NORTH 16°50'51" EAST, 31.40 FEET; THENCE NORTH 09°34'01" WEST, 109.98 FEET; THENCE NORTH 19°29'50" EAST, 212.06 FEET; THENCE NORTH 00°01'54" WEST, 58.05 FEET; THENCE NORTH 16°44'05" EAST, 77.10 FEET; THENCE NORTH 68°46'01" EAST, 315.71 FEET TO THE **POINT OF BEGINNING**.

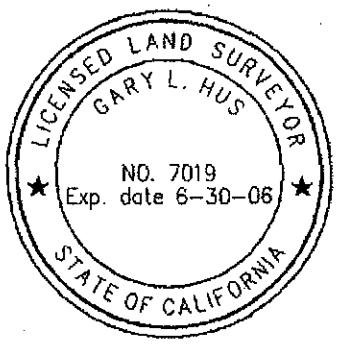
ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE

GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 3.313 ACRES (GROUND UNITS), MORE OR LESS.

5/9/03

GARY L. HUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006



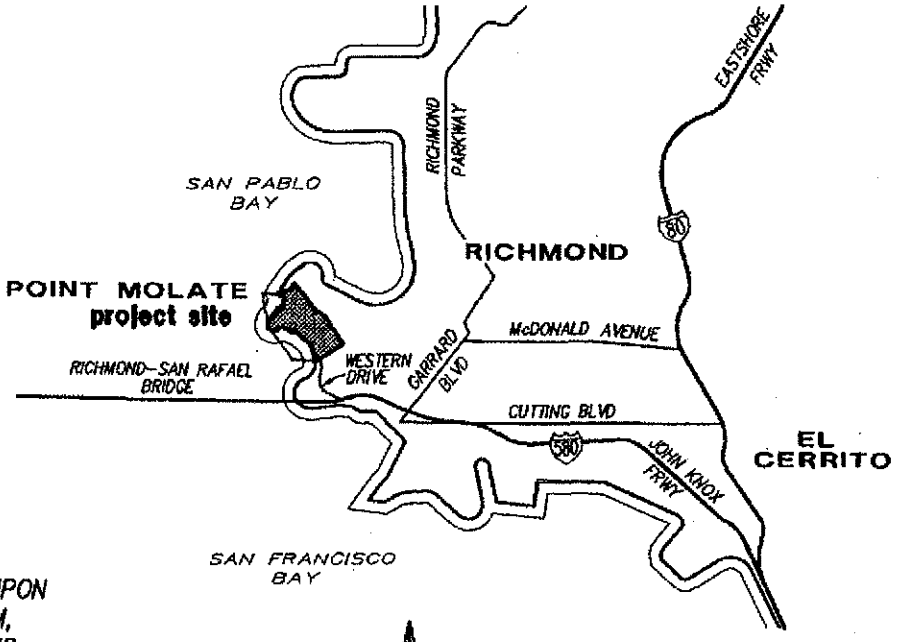

APPROVED BY
CPC
DATE 5-12-03

## LEGAL DESCRIPTION:

A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

## LEGEND:

- — — — — INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113
- **P.O.C.** — INDICATES POINT OF COMMENCEMENT
- **P.O.B.** — INDICATES POINT OF BEGINNING
- — INDICATES PARCEL AREA 3.313 ACRES (GROUND UNITS), MORE OR LESS




VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

5/9/03

GARY L. HUS, L.S. 7019 — DATE
REGISTRATION EXPIRES 6/30/2006

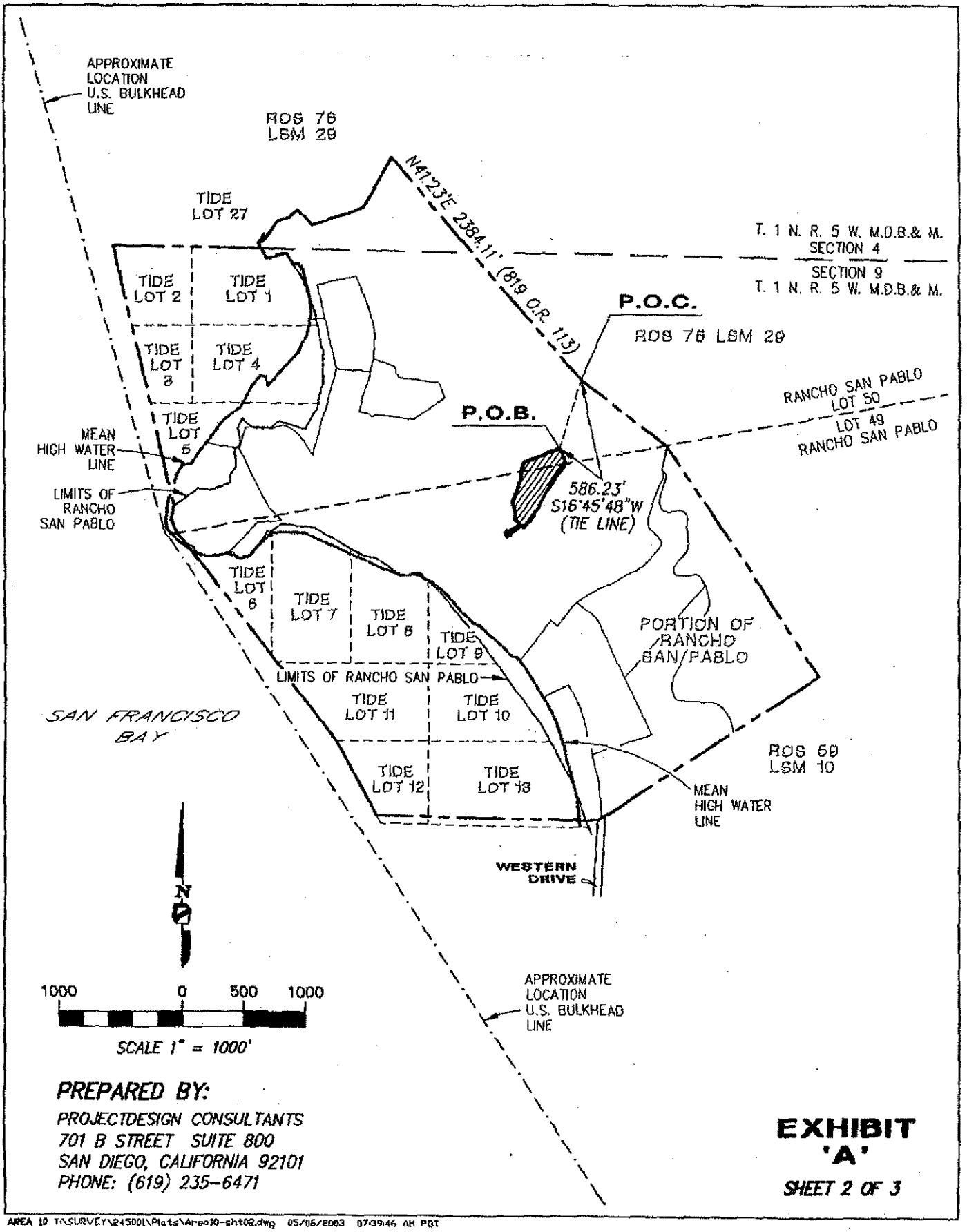
LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

CPC
5-12-03
5-12-03

**EXHIBIT 'A'**

SHEET 1 OF 3

AREA 10 T:\SURVEY\24500l\Plats\Area10-sht01.dwg 05/06/2003 07:39:45 AM PDT




**PREPARED BY:**

PROJECTDESIGN CONSULTANTS
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SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

**EXHIBIT 'A'**

SHEET 2 OF 3

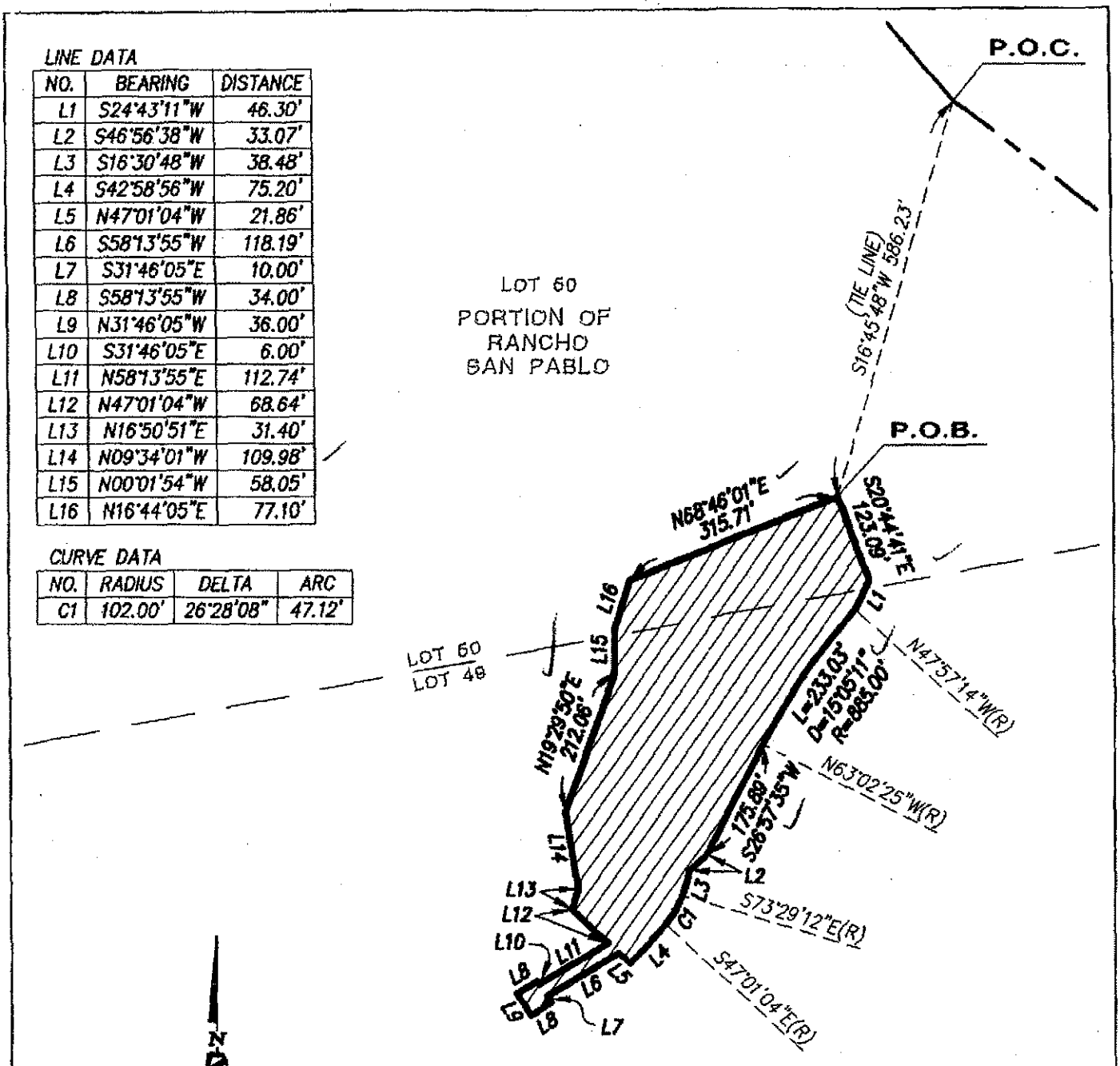
AREA 10 T:\SURVEY\24500I\Plats\Area10-sht02.dwg 05/05/2003 07:39:46 AM PDT

LINE DATA

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | S24°43'11"W | 46.30' |
| L2 | S46°56'38"W | 33.07' |
| L3 | S16°30'48"W | 38.48' |
| L4 | S42°58'56"W | 75.20' |
| L5 | N47°01'04"W | 21.86' |
| L6 | S58°13'55"W | 118.19' |
| L7 | S31°46'05"E | 10.00' |
| L8 | S58°13'55"W | 34.00' |
| L9 | N31°46'05"W | 36.00' |
| L10 | S31°46'05"E | 6.00' |
| L11 | N58°13'55"E | 112.74' |
| L12 | N47°01'04"W | 68.64' |
| L13 | N16°50'51"E | 31.40' |
| L14 | N09°34'01"W | 109.98' |
| L15 | N00°01'54"W | 58.05' |
| L16 | N16°44'05"E | 77.10' |

CURVE DATA

| NO. | RADIUS | DELTA | ARC |
|---|---|---|---|
| C1 | 102.00' | 26°28'08" | 47.12' |





**PREPARED BY:**

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**EXHIBIT 'A'**

SHEET 3 OF 3


AREA 10 T:\SURVEY\245001\Plats\Area10-sht03.dwg 05/06/2003 07:40:24 AM PDT

AREA 11

**LEGAL DESCRIPTION**

A PORTION OF LOT 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT AT THE SOUTHEASTERLY TERMINUS OF THAT CERTAIN COURSE IN JUDGMENT RECORDED JULY 28, 1945, BOOK 819, OFFICIAL RECORDS, PAGE 113, HAVING A BEARING OF NORTH 40°27'17" WEST, 2383.78 FEET (NORTH 41°23' WEST, 2384.11 FEET, 819 O.R. 113), (NORTH 40°27'00" WEST, 2383.48 FEET, 76 LSM 29), SAID POINT ALSO BEING A FOUND 8" CONCRETE MONUMENT WITH STEEL PIN AS REFERENCED PER RECORD OF SURVEY 76 LSM 29, RECORDED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA; THENCE SOUTH 88°55'56" WEST, 1160.11 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 20°25'49" EAST, 130.93 FEET; THENCE SOUTH 53°30'38" WEST, 307.04 FEET; THENCE NORTH 82°58'33" WEST, 280.00 FEET; THENCE SOUTH 18°31'56" WEST, 66.63 FEET; THENCE NORTH 79°56'50" WEST, 166.58 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE EASTERLY AND HAVING A RADIUS OF 663.00 FEET, A RADIAL LINE TO SAID POINT BEARS NORTH 86°56'43" WEST; THENCE NORTHERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 15°28'39", 179.10 FEET; THENCE TANGENT TO SAID CURVE NORTH 18°31'56" EAST, 128.64 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 1355.00 FEET; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 07°18'05", 172.67 FEET; THENCE NON-TANGENT TO SAID CURVE NORTH 09°35'56" EAST, 33.95 FEET; THENCE SOUTH 71°04'34" EAST, 181.62 FEET; THENCE SOUTH 70°03'28" EAST, 391.62 FEET TO THE **POINT OF BEGINNING**.

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 5.422 ACRES (GROUND UNITS), MORE OR LESS.

9/11/2003

GARY L. HUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006

APPROVED BY
DATE 9/12/03

## LEGAL DESCRIPTION:

A PORTION OF LOT 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894.

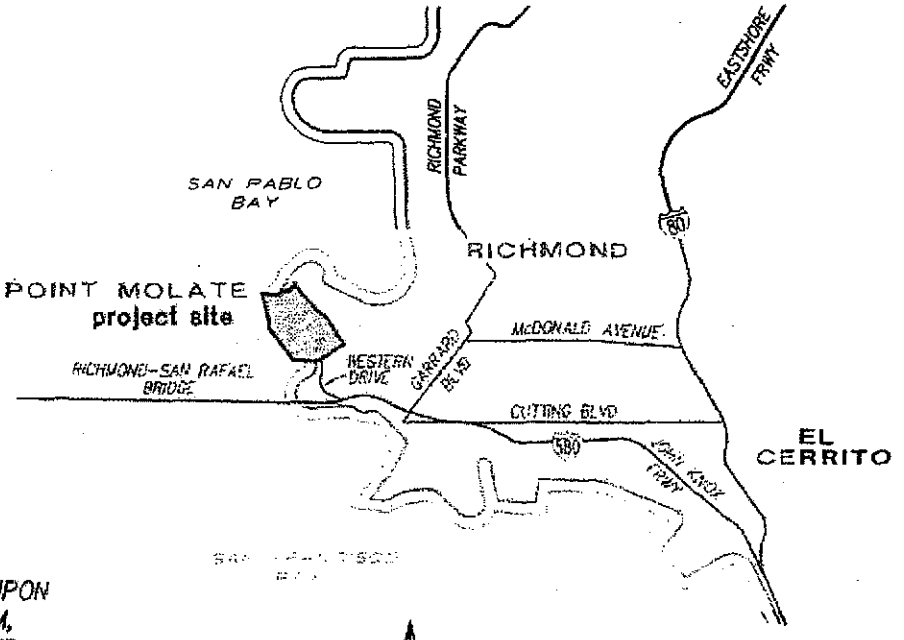
## LEGEND:

———— INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113

**P.O.C.** ___ INDICATES POINT OF COMMENCEMENT

**P.O.B.** ___ INDICATES POINT OF BEGINNING

___ INDICATES PARCEL AREA 5.422 ACRES (GROUND UNITS), MORE OR LESS




VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS DRAWING IS GRID BASED UPON CALIFORNIA COORDINATE SYSTEM, ZONE 3, ADJUSTMENT NAD83 AND EPOCH 1998, BASED UPON THE LINE BETWEEN NGS "B" ORDER STATIONS PID NUMBERS DE8503 AND AA3820, I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
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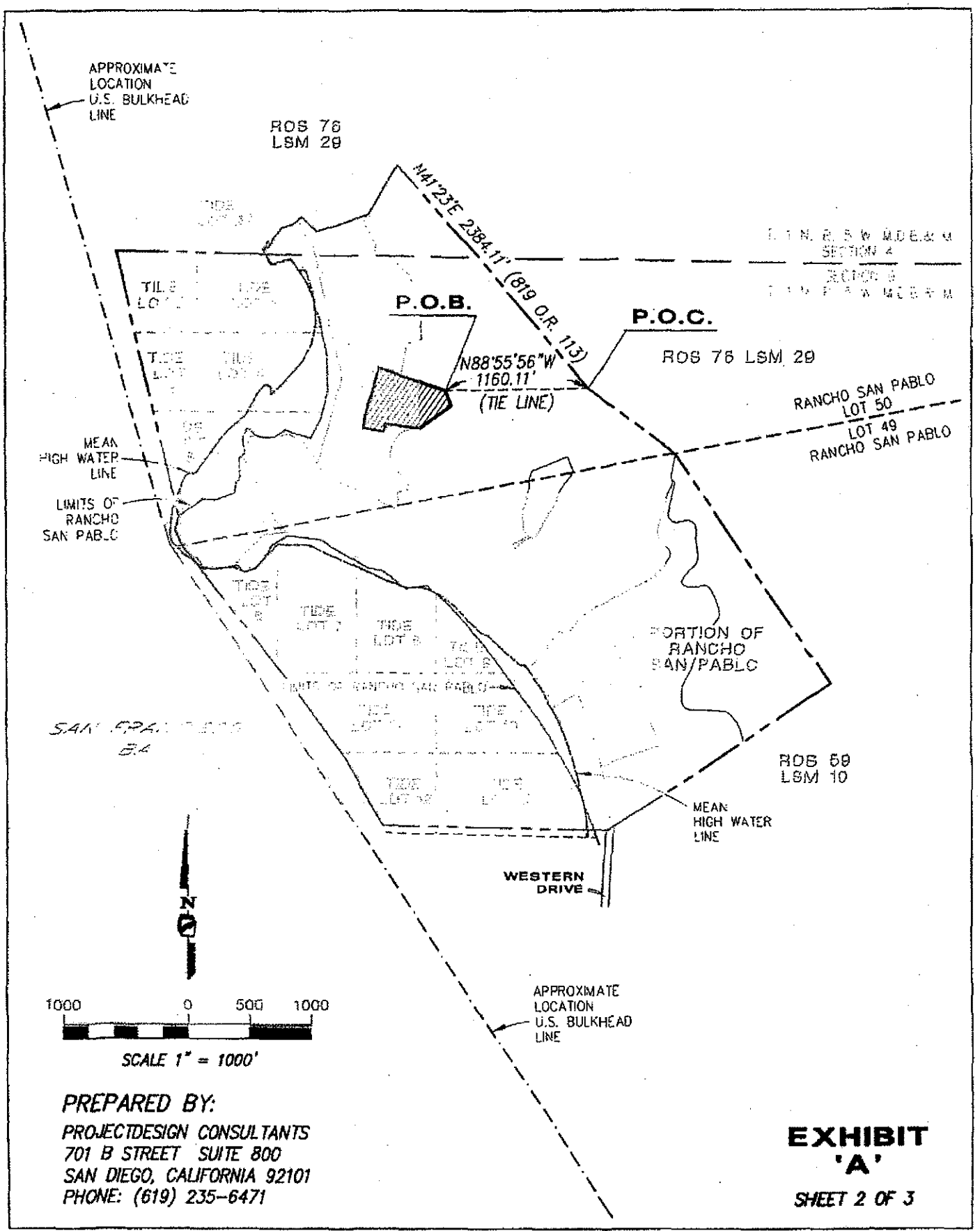
GARY L. HUS, L.S. 7019 — DATE 9/11/2003
REGISTRATION EXPIRES 6/30/2006

LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
CADASTRAL
DATE 9/12/03

**EXHIBIT 'A'**

SHEET 1 OF 3




**PREPARED BY:**

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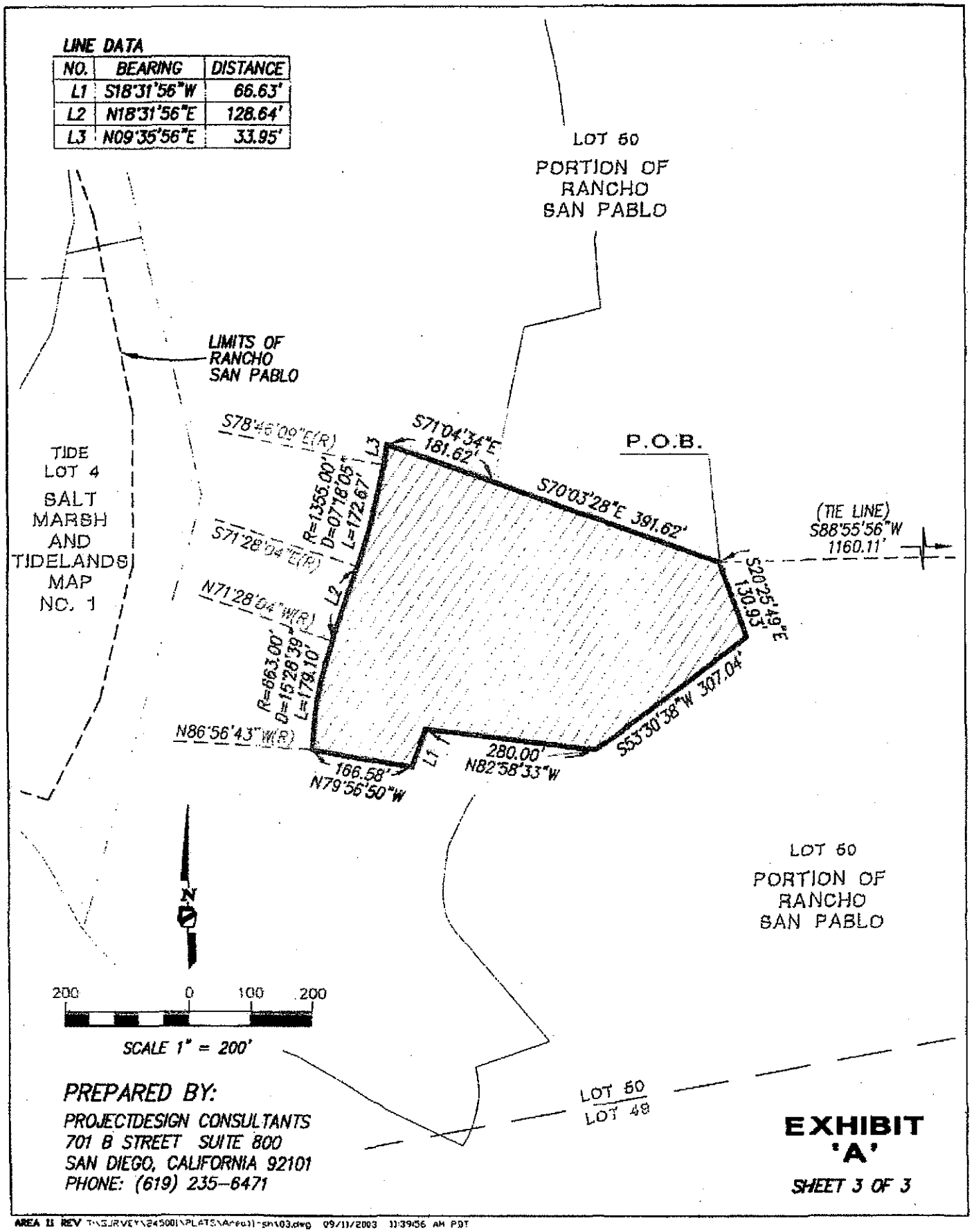
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

**EXHIBIT 'A'**

SHEET 2 OF 3

AREA II REV T:\SURVEY\245001\PLATS\Area11-sht02.dwg 09/11/2003 11:39:05 AM PDT




PREPARED BY:

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SAN DIEGO, CALIFORNIA 92101
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**EXHIBIT 'A'**

SHEET 3 OF 3

AREA II REV T:\SURVEY\24500I\PLATS\Area3I-sh03.dwg 09/11/2003 11:39:56 AM PDT

AREA 12

**LEGAL DESCRIPTION**

A PORTION OF TIDE LOT 1 AS DESIGNATED ON THE MAP ENTITLED "MAP NO. 1, SALT MARSH AND TIDE LANDS, SITUATE IN THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, 1872" AND A PORTION OF LOT 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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LAND DESCRIPTION THE FOLLOWING COURSES: NORTH 33°13'32" EAST, 192.21 FEET (SOUTH 32°14'30" WEST, 191.40 FEET, 819 O.R. 113), (SOUTH 33°21'16" WEST, 192.02 FEET, 76 LSM 29); THENCE NORTH 71°40'49" EAST, 104.65 FEET (SOUTH 70°09' WEST, 103.89, 819 O.R. 113), (SOUTH 71°21'04" WEST, 104.41 FEET, 76 LSM 29); THENCE NORTH 46°25'17" EAST, 45.74 FEET, (SOUTH 46°24'59" WEST, 819 O.R. 113) TO THE **POINT OF BEGINNING.**

ATTACHED HERETO IS A PLAT LABELED EXHIBIT 'A' AND BY THIS REFERENCE MADE A PART THEREOF. ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES. ALL AREA ACREAGES ARE EXPRESSED IN GROUND UNITS. TO COMPUTE GROUND DISTANCES, DIVIDE GRID DISTANCES BY 0.999937572. ALL BEARINGS SHOWN HEREON ARE GRID BASED UPON CALIFORNIA COORDINATE SYSTEM ZONE 3, ADJUSTMENT, NAD83, AND EPOCH 1998.

SAID PARCEL OF LAND CONTAINS 3.368 (GROUND UNITS) ACRES, MORE OR LESS.

9/11/2003

GARY L. HUS DATE
L.S. 7019
EXPIRATION DATE 6/30/2006

LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
DATE 9/12/03

## LEGAL DESCRIPTION:

A PORTION OF TIDE LOT 1
AS DESIGNATED ON THE MAP ENTITLED
"MAP NO. 1, SALT MARSH AND TIDE LANDS
SITUATE IN COUNTY OF CONTRA COSTA,
STATE OF CALIFORNIA, 1872",
AND A PORTION OF LOT 50
AS DESIGNATED ON THE MAP ENTITLED
"MAP OF THE SAN PABLO RANCHO,
ACCOMPANYING AND FORMING A PART OF
THE FINAL REPORT OF THE REFEREES IN
PARTITION", WHICH MAP WAS FILED IN THE
OFFICE OF THE RECORDER OF THE COUNTY
OF CONTRA COSTA, STATE OF CALIFORNIA,
ON MARCH 1, 1894.

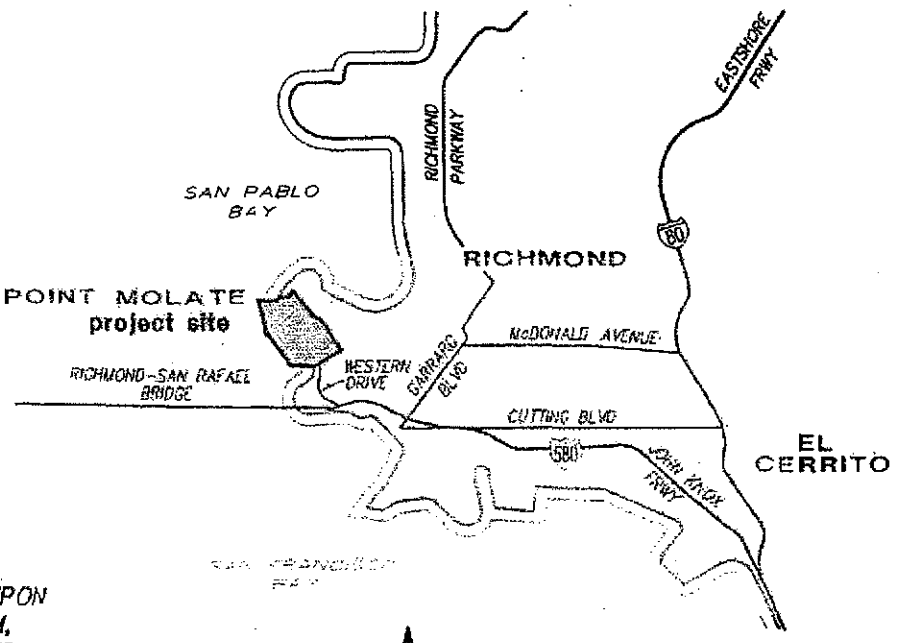
## LEGEND:

———— INDICATES EXISTING OVERALL BOUNDARY OF 819 O.R. 113

**P.O.C.** ___ INDICATES POINT OF COMMENCEMENT

**P.O.B.** ___ INDICATES POINT OF BEGINNING

___ INDICATES PARCEL AREA
3.368 ACRES (GROUND UNITS),
MORE OR LESS




VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR
THIS DRAWING IS GRID BASED UPON
CALIFORNIA COORDINATE SYSTEM,
ZONE 3, ADJUSTMENT NAD83 AND
EPOCH 1998, BASED UPON THE LINE
BETWEEN NGS "B" ORDER STATIONS
PID NUMBERS DE8503 AND AA3820,
I.E. N20°05'59" E.

## PREPARED BY:

PROJECTDESIGN CONSULTANTS
701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

9/11/2003
GARY L. HUS, L.S. 7019 DATE
REGISTRATION EXPIRES 6/30/2006

LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

APPROVED BY
DATE 9/12/03

**EXHIBIT 'A'**

SHEET 1 OF 3

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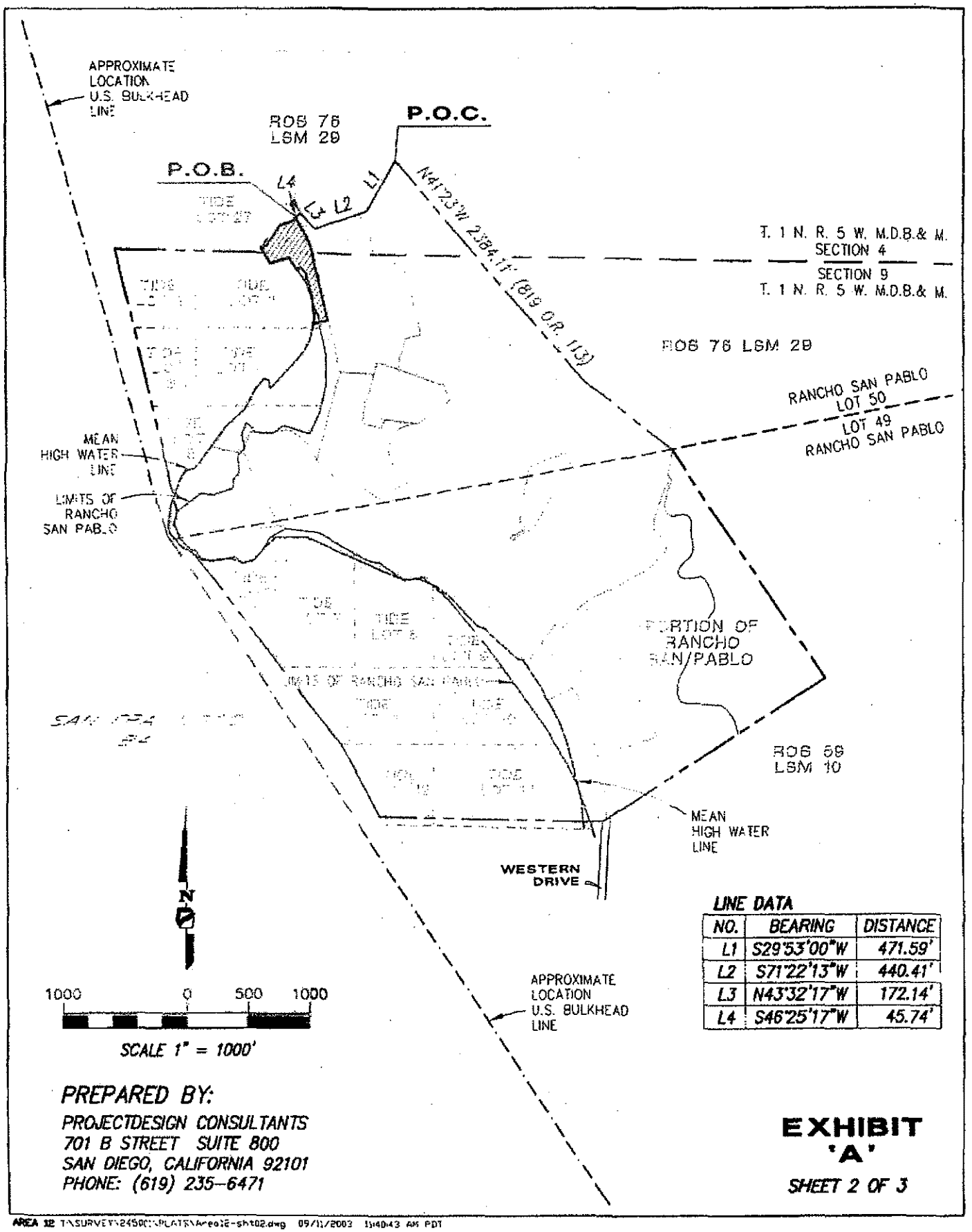


**LINE DATA**

| NO. | BEARING | DISTANCE |
|---|---|---|
| L1 | S29°53'00"W | 471.59' |
| L2 | S71°22'13"W | 440.41' |
| L3 | N43°32'17"W | 172.14' |
| L4 | S46°25'17"W | 45.74' |


**PREPARED BY:**

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**EXHIBIT 'A'**

SHEET 2 OF 3

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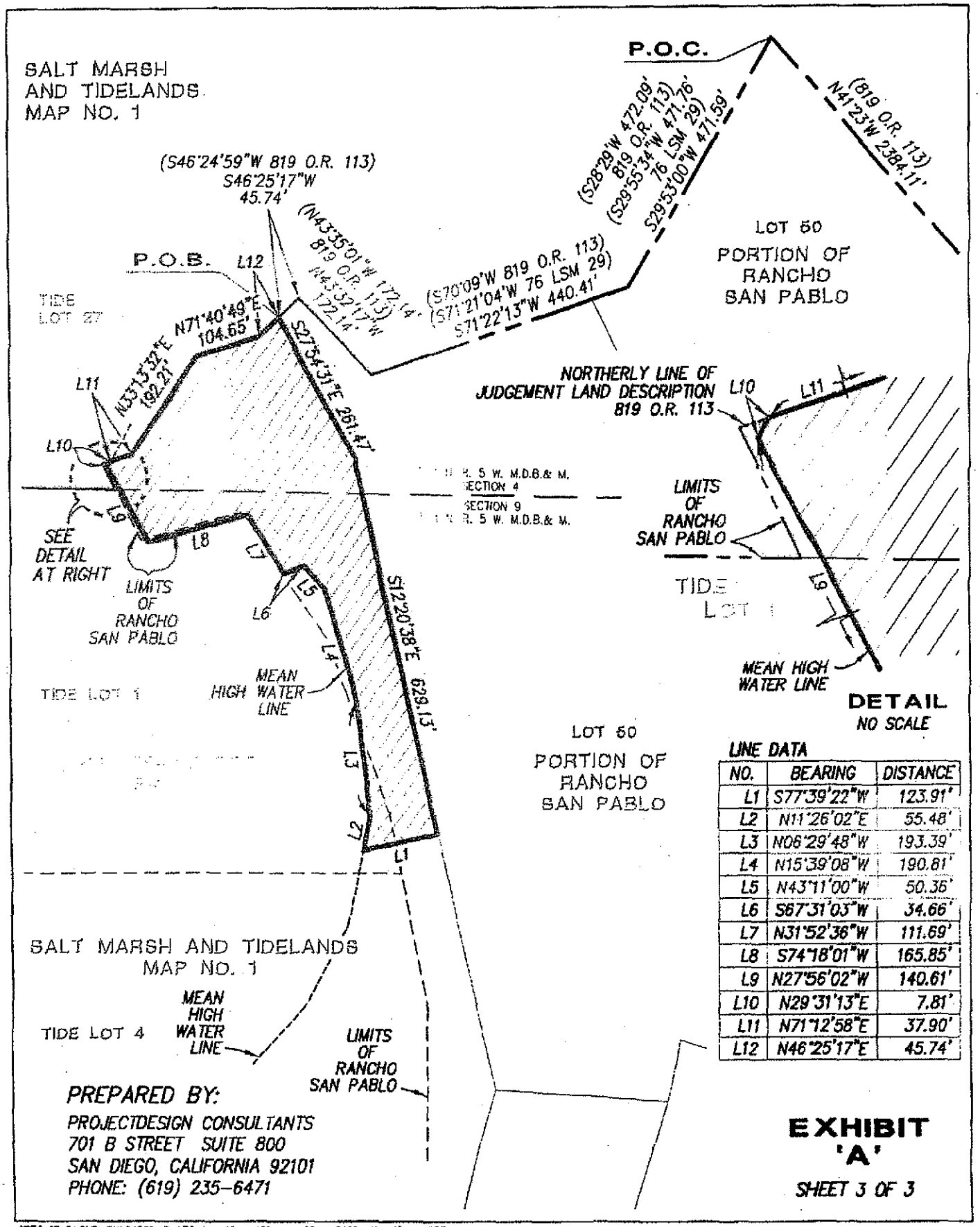


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AREA 13

**LEGAL DESCRIPTION**

PORTIONS OF TIDE LOTS 5 AND 6, AS DESIGNATED ON THE MAP ENTITLED "MAP NO. 1, SALT MARSH AND TIDE LANDS SITUATE IN COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, 1872", AND A PORTION OF LOTS 49 AND 50, AS DESIGNATED ON THE MAP ENTITLED "MAP OF THE SAN PABLO RANCHO, ACCOMPANYING AND FORMING A PART OF THE FINAL REPORT OF THE REFEREES IN PARTITION", WHICH MAP WAS FILED IN THE OFFICE OF THE RECORDER OF THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, ON MARCH 1, 1894, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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LICENSED LAND SURVEYOR
GARY L. HUS
NO. 7019
Exp. date 6-30-06
STATE OF CALIFORNIA

5/9/03

GARY L. HUS DATE
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APPROVED BY
CPC
DATE 5-12-03

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- **P.O.B.** — INDICATES POINT OF BEGINNING
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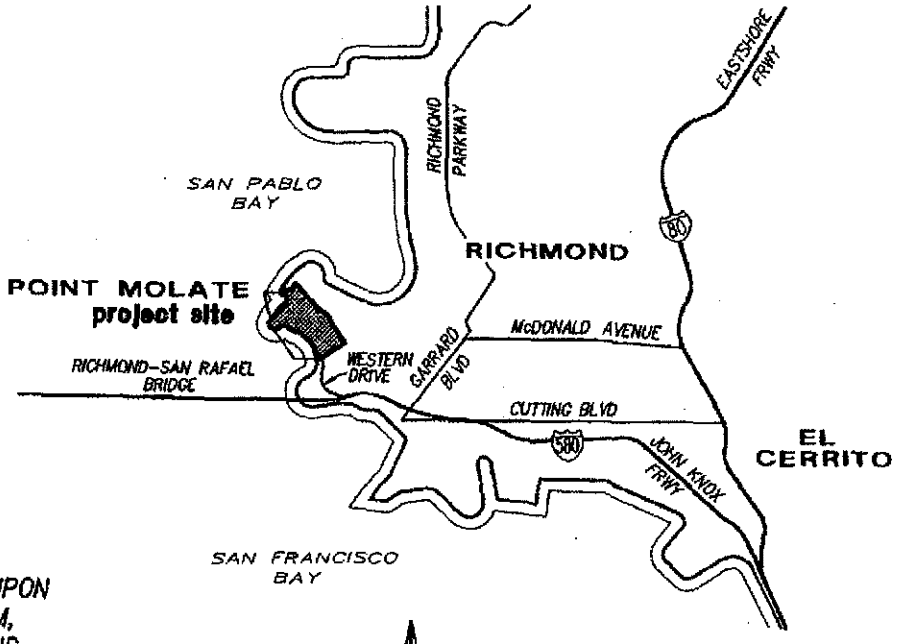


VICINITY MAP
NO SCALE

## BASIS OF BEARINGS:

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SHEET 1 OF 3

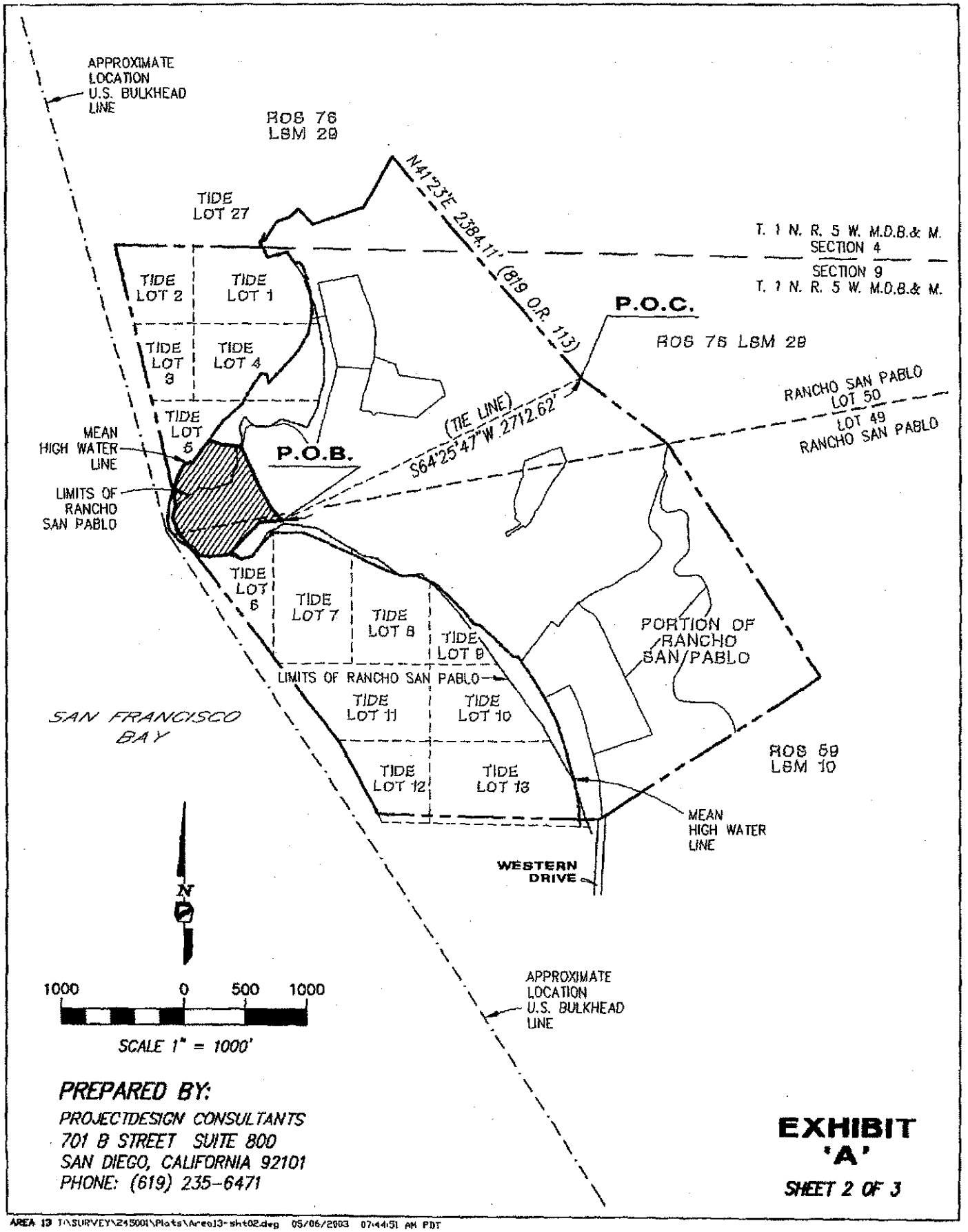


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**EXHIBIT 'A'**

SHEET 2 OF 3

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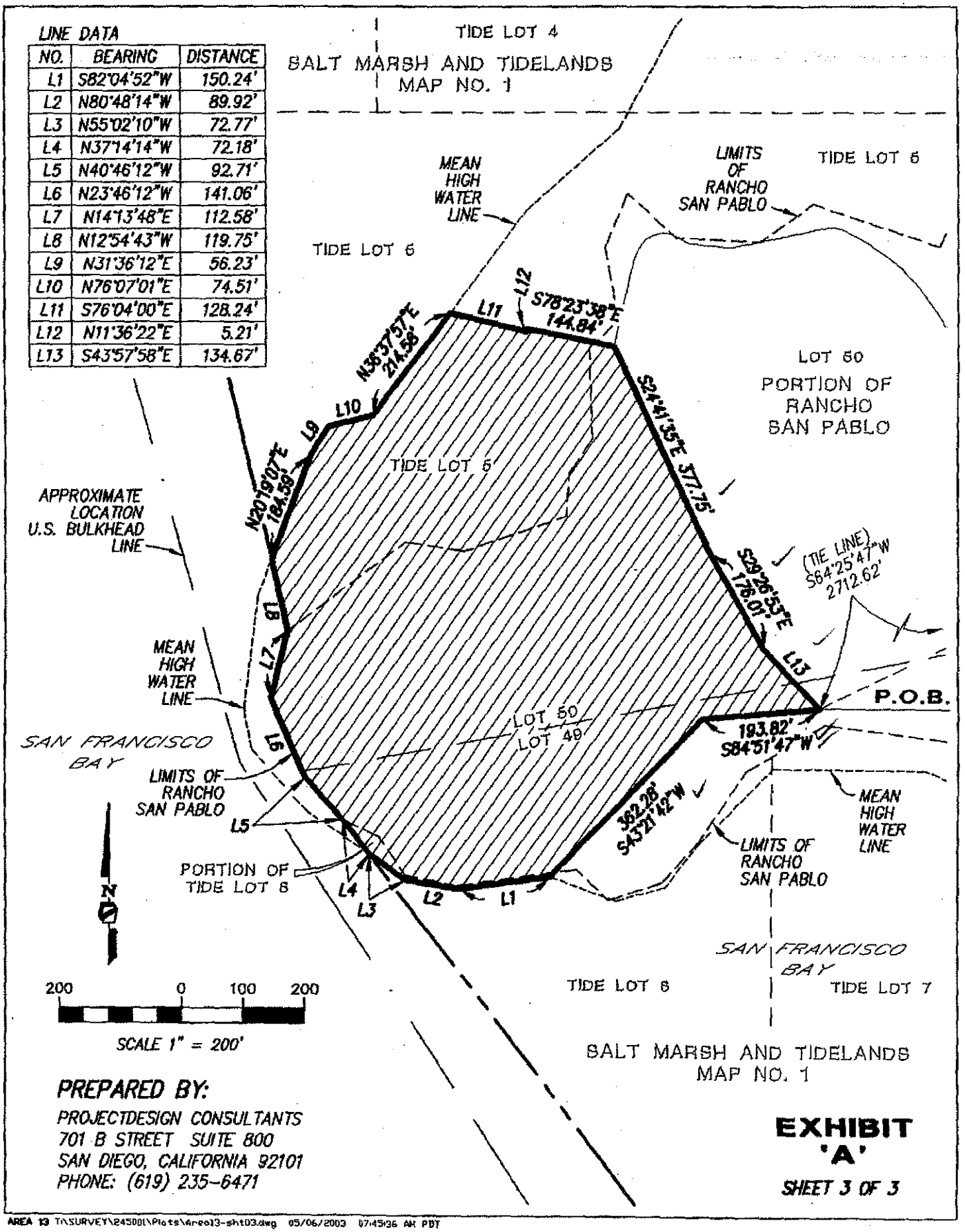


**PREPARED BY:**

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701 B STREET SUITE 800
SAN DIEGO, CALIFORNIA 92101
PHONE: (619) 235-6471

**EXHIBIT 'A'**

SHEET 3 OF 3

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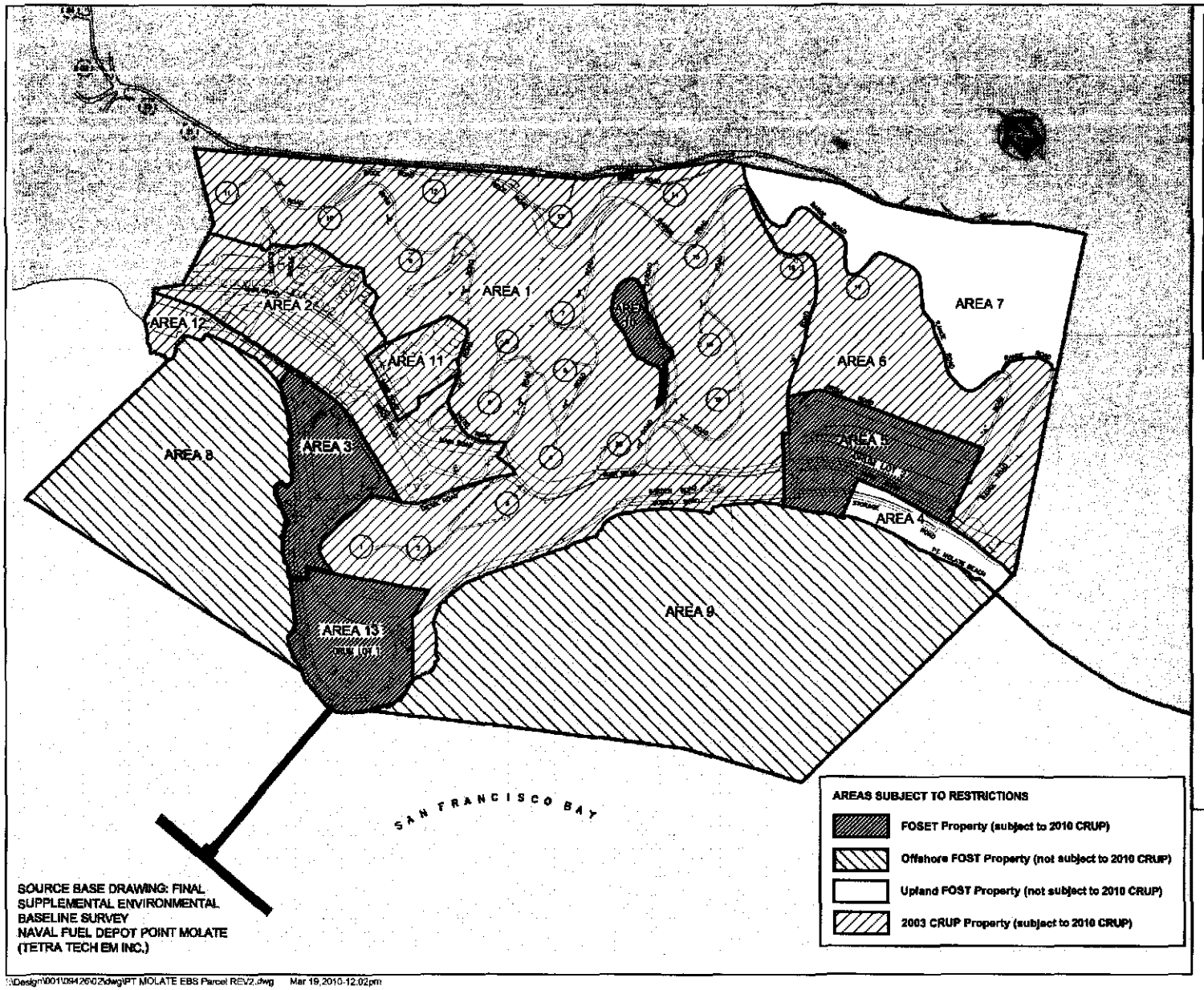
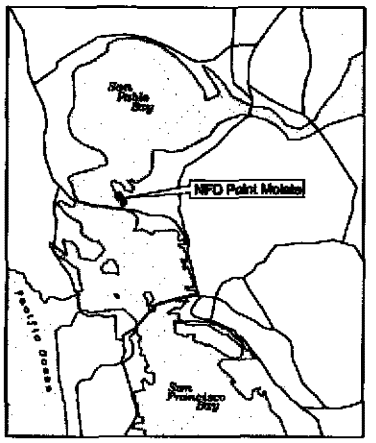
# EXHIBIT B

# MAP OF AREAS SUBJECT TO RESTRICTIONS




LEGEND

- Disposal Area Subject to FOSET
- Fuel Pier to be Transferred as an Appurtenance to Disposal Area 13
- Previously Transferred Disposal Area to the City of Richmond
- Previously Transferred Offshore Disposal Area to the City of Richmond
- Chevron Corporation Refinery
- Underground Storage Tanks
- Building
- Road
- FOSET — Finding of Suitability for Early Transfer

300' 0 300' 600'
SCALE: 1" = 600'

SOURCE BASE DRAWING: FINAL SUPPLEMENTAL ENVIRONMENTAL BASELINE SURVEY NAVAL FUEL DEPOT POINT MOLATE (TETRA TECH EM INC.)

\\Design\001\094260\2\dwg\PT MOLATE EBS Parcel REV2.dwg Mar 19,2010-12:02pm

**Areas Subject to Restrictions**
**Exhibit B**

LFR an ARCADIS company

END OF DOCUMENT

# APPENDIX D
SOIL AND GROUNDWATER MANAGEMENT PLAN

FINAL

# SOIL AND GROUNDWATER MANAGEMENT PLAN
# FORMER NAVAL FUEL DEPOT POINT MOLATE
# RICHMOND, CALIFORNIA

---

*On Behalf of*

City of Richmond
450 Civic Center Plaza
Richmond, CA 94804

*Prepared for*

Mr. James Levine
Upstream Point Molate
2000 Powell Street, Suite 920
Emeryville, CA 94608

*Prepared by*

Terraphase Engineering Inc.
1404 Franklin Street, Suite 600
Oakland, California 94612

September 21, 2012

Project Number 0001.001.007

terraphase engineering

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A Applicable Mitigation Measures

B Chemical Hazards

C Contractor Acceptance Form

D Sampling and Analysis Plan

E Transportation and Disposal Forms

F Transportation Routes

G Quality Control Plan

## Acronyms and Abbreviations

| | |
|---|---|
| AES | Analytical Environmental Services |
| ACM | asbestos-containing material |
| AHREA | Asbestos Hazard Emergency Response Act |
| APE | Area of Potential Effect |
| AST | above ground storage tank |
| BAAQMD | Bay Area Air Quality Management District |
| BAT/BCT | Best Available Technology/Best Control Technology |
| BIA | Bureau of Indian Affairs |
| BCDC | San Francisco Bay Conservation and Development Commission |
| bgs | below ground surface |
| BMP | Best Management Practices |
| BRAC IV | Base Realignment and Closure Act IV |
| CAC | Certified asbestos consultant |
| Cal/OSHA | California Department of Industrial Relations, Division of Occupational Safety and Health |
| CASQA | California Stormwater Quality Association |
| CCEHD | Contra Costa County Environmental Health Department |
| CCR | California Code of Regulations |
| CDFG | California Department of Fish and Game |
| CFR | Code of Federal Regulations |
| CHHSL | California Human Health Screening Levels |
| CIH | Certified Industrial Hygienist |
| City | City of Richmond |
| COC | Contaminants of Concern |
| CRUP | Covenant to Restrict Use of Property |
| DOT | Department of Transportation |
| DTSC | Department of Toxic Substance Control |
| EIR | Environmental Impact Report |
| EPA | Environmental Protection Agency |
| ESLs | Environmental Screening Levels |
| ETCA | Early Transfer Cooperative Agreement |
| FRF | fuel recovery facility |
| FOSET | Finding of Suitability for Early Transfer |
| FOST | Finding of Suitability to Transfer |
| FPAL | Fuel Product Action Levels |
| HAZWOPER | Hazardous Waste Operations Training |
| HSAs | Hazard Safety Analyses |
| HSP | Health and Safety Plan |
| HUD | US Department of Housing and Urban Development |

| | |
|---|---|
| IR | Installation Restoration |
| ITSI | Innovative Technical Solutions, Inc. |
| JP-5 | Jet Propellant 5 |
| LBP | lead-based paint |
| LRP | Legally Responsible Person |
| LUC | land use control |
| $mg/cm^2$ | milligrams per square centimeter |
| mg/L | milligrams per liter |
| $mg/m^3$ | milligrams per cubic meter |
| mph | miles per hour |
| NAAQS | National Ambient Air Quality Standards |
| NAHC | Native American Heritage Commission |
| Navy | Department of the Navy |
| NFD | Naval Fuel Depot |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| NTU | nephelometric turbidity unit |
| OHP | Office of Historic Preservation |
| OSHA | Occupational Safety and Health Administration |
| OSWER | Office of Solid Waste and Emergency Response |
| OVA | organic vapor analyzer |
| PAH | Polynuclear Aromatic Hydrocarbons |
| PCB | polychlorinated biphenyl |
| PDR | Personal Data Rams |
| PG&E | Pacific Gas and Electric Company |
| PID | photoionization detector |
| PGWTP | packaged groundwater treatment plant |
| PMMP | Post-Closure Maintenance and Monitoring Plan |
| PPE | personal protective equipment |
| ppmv | parts per million by volume |
| PRD | Permit Registration Documents |
| QSD | Qualified SWPPP Developer |
| RACM | regulated asbestos containing material |
| RCRA | Resource Conservation and Recovery Act |
| RWQCB | San Francisco Bay Regional Water Quality Control Board |
| SAP | Sampling and Analysis Plan |
| SGWMP | Soil and Groundwater Management Plan |
| SHPO | State Historical Preservation Office |
| SMARTS | Stormwater Multi-Application and Report Tracking System |
| STLC | soluble threshold limit concentration |
| SVOC | semi-volatile organic compound |
| SWPPP | Stormwater Pollution Prevention Plan |

| | |
|---|---|
| SWRCB | State Water Resources Control Board |
| TCLP | toxicity characteristic leaching procedure |
| Terraphase | Terraphase Engineering Inc. |
| TPH | total petroleum hydrocarbons |
| TSD | treatment, storage, and disposal |
| TTLC | total threshold limit concentration |
| Upstream | Upstream Point Molate LLC |
| US | United States |
| USA | Underground Service Alert |
| USACE | U.S. Army Corps of Engineers |
| USFWS | United States Fish and Wildlife Service |
| UST | underground storage tank |
| VOC | Volatile Organic Compound |

# 1.0 INTRODUCTION

This Soil and Groundwater Management Plan (SGWMP) was prepared by Terraphase Engineering Inc. (Terraphase) on behalf of Upstream Point Molate LLC (Upstream). The SGWMP was prepared for activities that may disturb soil or produce groundwater at the Former Naval Fuel Depot Point Molate (NFD Point Molate, the "Site"). The Site is located in Richmond, California (Figure 1). The Site is a former United States (US) Department of Navy ("Navy") fuel storage facility, which consisted of a series of underground fuel storage tanks (USTs) capable of storing up to 40 million gallons of fuel. Historical releases of fuel occurred during transfer of fuel to and from the USTs.

This SGWMP was completed in response to Task 2 of San Francisco Bay Regional Water Quality Control Board (RWQCB) Order #R2-2011-0087, which states:

> *"The Discharger shall propose a Soil and Groundwater Management Plan for the Facility, acceptable to the Executive Officer, identifying how soils and affected groundwater will be managed for any phase of cleanup activities at the Facility, including initial cleanup as well as cleanups related to discoveries during any future development of the Facility.*
>
> *The plan must propose how soil and groundwater will be sampled and analyzed during all phases of remediation and development, and how test results will be used to protect Facility workers and future occupants and visitors from residual pollutants. The plan shall describe the protocol to be followed for all sampling, field measurements, analytical techniques, and the sequence and methods of any proposed remediation.*
>
> *The plan shall be consistent with and incorporate all applicable mitigation measures set forth in the certified EIR [Environmental Impact Report]. The plan shall address equipment and the schedule of activities, proposed measures to limit fugitive emissions from site remediation and trucking activities, general soil removal and backfilling specifications, dewatering and discharge activities during the remedy process, and the proposed groundwater treatment activities to protect surrounding groundwater and surface water resources."*

Further, this report is intended to meet the requirements of mitigation measure 11-1 from the Environmental Impact Report (EIR; Analytical Environmental Services [AES] 2011) as follows:

> *"To protect construction personnel from potential exposure to undiscovered hazardous materials, a site-specific hazardous materials inadvertent discovery plan (Plan) or an equivalent soil and groundwater management plan (SMP) that addresses inadvertent discovery of hazardous materials, shall be developed for the project prior*

*to any grading or ground disturbing activities. The Plan shall define protocols to be implemented if suspected contamination is found during mass grading and excavation activities associated with site development. The Plan shall identify how soils and affected groundwater are to be managed require hourly field measurements within active excavation areas during hillside UST excavation. The Plan shall also include hourly field measurements within active soil stockpile areas and confined spaces. The Plan shall be implemented by a registered engineer and shall include hourly field measurements for undiscovered contaminants using a photo ionization detector (PID) for measuring volatile organic compounds (VOCs), and, if deemed necessary by the engineer, soil samples would be collected and analyzed for petroleum hydrocarbons in areas of suspected contamination.*

*If suspected contamination is found during construction activities, all work shall stop in the immediate area and a safe zone for construction personnel shall be established. The extent of contamination shall be assessed to determine whether there is a significant health risk to construction personnel working on-site. The SMP would also include construction personnel safety protocols according to Occupational Safety and Health Administration (OSHA) guidelines to be implemented as part of the SMP. The Tribe shall ensure through contractual obligations that OSHA guidelines are followed during construction activity and any potential removal of affected soils."*

This plan allows for and describes protocols that must be followed in order to complete soil disturbance and building demolition activities at the Site. Examples of activities covered by this plan include, but are not limited to, landscaping, installing and maintaining utilities, grading, trenching, installing deep foundations, drilling borings for subsurface exploration or monitoring well installation, building demolition and constructing subsurface structures. This plan covers all portions of the Site except for Installation Restoration (IR) Site 3 and IR Site 4 (Figure 2), which are currently undergoing site specific remediation activities. Planned subsurface disturbances associated with soil and groundwater remediation activities at IR Site 3 and IR Site 4 must be addressed on a site-specific basis as described in the RWQCB Order.

Prior to conducting any activities that may disturb soil or groundwater at the Former NFD Point Molate, the Contractor responsible for the work shall obtain permission from the RWQCB to perform the work unless the work consists of activities that have been pre-approved by the RWQCB to be conducted using the procedures contained in this SGWMP.

## 1.1 Background

### 1.1.1 Property History

In 1941, Point Molate was acquired by the Navy for use as a Naval Fuel Depot. Beginning in 1942, the Navy used NFD Point Molate for fuel storage and distribution for the Pacific Fleet.

Fuel storage and supply operations ceased in May 1995. Former NFD Point Molate became a closing base under the Base Realignment and Closure Act IV (BRAC IV) program in September 1995, and operational closure of the facility occurred in September 1998. In September 2003, approximately 372 acres of the depot were transferred to the City of Richmond (the "City") under a Finding of Suitability to Transfer (FOST; Navy 2003). The remaining 40 acres of the 412-acre federal facility, which include IR Site 1, IR Site 3, and IR Site 4 were transferred to the City on March 29, 2010 on the basis of a Finding of Suitability for Early Transfer (FOSET) (Navy 2008b).

The Navy and the City entered into an Early Transfer Cooperative Agreement (ETCA; Navy 2008a) where the City would complete environmental remediation activities to satisfy the requirements of the RWQCB Order.

## 1.2 Purpose

The purpose of this SGWMP is to document the procedures to be used in conducting subsurface activities and demolition activities at the Former NFD Point Molate which may disturb soil contaminated with anthropogenic materials or produce groundwater containing anthropogenic materials.

This SGWMP addresses procedures and requirements pertaining to the following specific types of site activities but can be applied to other soil disturbing activities:

- Soil disturbing activities, including:
    - trenching
    - excavations
    - landscaping
    - installing and maintaining utilities
    - grading
    - installing deep foundations
    - drilling borings for subsurface exploration or monitoring well installation
    - constructing subsurface structures
- Building demolition
- Dewatering of excavations and trenches
- Waste hauling and disposal

This SGWMP is intended to meet the requirements of the RWQCB Order (Task 2), the mitigation measures applicable to these activities described in the EIR (AES 2011), and the Covenant to Restrict Use of Property (CRUP; Contra Costa County 2010). The requirements of RWQCB Order Task 2 were previously described in Section 1.0. The EIR mitigation measures (See Appendix A for text of applicable mitigation measures) include:

- MM 1-1: Compliance with National Pollutant Discharge Elimination System (NPDES) Construction General Permit
- MM 2.1 f: Development of spill prevention and countermeasures plan, as necessary
- MM 2.1 u: Conservation of top soil
- MM 2-1 v. Disposal of encountered groundwater
- MM 2-2: Preparation of Erosion and Sediment Control Plan
- MM 3-1 through 3-15: Specific dust and erosion control mitigation measures
- MM 4-2 through 4-4: Mixed Riparian area avoidance and setbacks
- MM 4-5 and 4-6: Setbacks from beach strand
- MM 4-7 and 4-8: Tidal wetland and eel grass avoidance
- MM 4-10 through 4-12: Wetland fill avoidance as feasible
- MM-4-13 and 4-14: Suisun Aster Mitigation Area
- MM 4-15 through 4-17: Special status and bird survey and avoidance measures
- MM 4-20 and 4-21: Bat survey and avoidance requirements
- MM 5-1 and 5-2: Cultural resource area protection
- MM 7-1: Soil Disposal Plan
- MM 7-2: Traffic flow notification for impacts to Western Drive
- MM 7-3: Construction Coordination Planning
- MM 9-4: Construction waste recycling
- MM 11-1: Development of Soil and Groundwater Monitoring Plan

The requirements of the CRUP (Section 4.01b) include:

- RWQCB-approved dewatering plan, and
- RWQCB-approved soil and groundwater management plan

The requirements of the CRUP are described more fully in Section 3 of this document.

## 1.3 Approach

This SGWMP identifies the specific procedures and protocols that are to be used during soil disturbance activities, and groundwater-related activities, such as dewatering of excavations, with the goal that the activities are conducted in a manner that is protective of human health and the environment and in a manner that does not interfere with investigation or remediation of the Site.

This SGWMP provides the background information on the types and hazards associated with chemical contamination that has been historically found in samples collected at the Site (Appendix B). This SGWMP does not address specific construction safety or OSHA worker safety requirements. Individuals and companies performing construction work at the Site are responsible for complying with federal, state, and local requirements that are not addressed in this document. No contractor may perform work at the Former NFD Point Molate without

having prepared a site-specific health and safety plan (HSP) which provides procedures to be used to protect workers from all hazards they may encounter related to their specific activities.

This SGWMP will be effective upon approval by the RWQCB and will remain in effect until both the RWQCB and the City agree that it is no longer necessary.

The City and/or Upstream (or their agents) may respond to emergency situations requiring subsurface disturbances according to the processes and procedures defined in Section 10 of this SGWMP. All other activities will follow the protocols developed in the other sections of this document.

## 1.4 Enforcement

This document is subject to enforcement by the approving regulatory agencies. Failure to comply with the provisions in this document could result in fines, penalties, administrative orders, judicial enforcement, and injunctive relief.

Only the RWQCB can approve or issue a variance from this SGWMP. Requests for variance from this plan must be submitted in writing to the RWQCB and the City. No work shall be conducted that is not in conformance with this SGWMP prior to receiving written approval from the RWQCB and concurrence from the City.

Depending on the actual activities, the following permits and consultations (and others) may also be required and are not discussed in detail in this SGWMP to conduct soil disturbance, dewatering or building demolition activities at the Former NFD Point Molate:

- San Francisco Bay Conservation and Development Commission (BCDC) Permit for work within 100 feet of the high tide line
- Richmond Building Permit for construction of structures
- United States Army Corps of Engineers (USACE)/RWQCB 401/404 Permit for fill or work in wetland and waters of the United States
- California Department of Fish and Game (CDFG) Consultation for work near sensitive species
- National Marine Fisheries Service Consultation for work in San Francisco Bay that may impact sensitive fish species

## 1.5 Contractor Acceptance

The contractor and all site personnel will be familiar with this SGWMP and its conditions. All site personnel will review this plan, attend training as described in Section 13, and sign the Soil and Groundwater Management Plan Review and Acceptance Form (Appendix C) acknowledging their compliance with this plan before starting work at the Site. It will be the responsibility of the City of Richmond (or their designee) as the Site owner and responsible party to disseminate the SGWMP to the appropriate parties.

# 2.0 ENVIRONMENTAL CHARACTERIZATION OF THE FORMER NFD POINT MOLATE

Point Molate operated as a Naval Fuel depot for over 50 years and based on this activities legacy contamination of soil, groundwater and soil gas have been investigated and at most locations remediated to the satisfaction of the RWQCB. This Section describes the contamination that has been detected at the Site in the Past and the recognized contaminants of concern (COCs) detected throughout the Site.

It should be noted that this SGWMP does not apply to IR Site 3 and IR Site 4 because future remedial activities are planned for these two areas. The final scope of the remedial activities has not yet been approved by the RWQCB. As such, the post-remedial nature of contaminants and the distribution of contaminated media in IR Site 3 and IR Site 4 are unknown. Following the completion of the remedial activities in these areas, the SGWMP will be updated to include IR Site 3 and IR Site 4. Until the RWQCB approves that the remedial activities at IR Site 3 and IR Site 4 are complete, no intrusive activities beyond the top 24 inches are permitted in these areas without prior written approval of the RWQCB.

The following key site investigation documents describing the Site are available for review:

- Phase II Remedial Investigation Report (TetraTechEMI [TtEMI] 2000)
- Corrective Action Plan (CAP) for IR Site 3 (Bechtel 2005)
- Field Summary Letter Report: Hillside Underground Storage Tank Soil Sampling Report (ChaduxTt 2009)
- Wet-Season Semiannual Groundwater Monitoring Report (Terraphase 2011b)
- Dry-Season Semiannual Groundwater Monitoring Report (Terraphase 2012c)
- Fourth Quarter 2011 Installation Restoration Site 1 Landfill Post-Closure Monitoring Report (Terraphase 2012a)
- Annual 2011 Underground Storage Tank Monitoring Report (Terraphase 2012b)

## 2.1 Contaminants of Concern

Based on the above investigations and Monitoring Reports, COCs in soil at the Former NFD Point Molate include:

- Petroleum hydrocarbons
    - Bunker fuel
    - Jet Propellant 5 (JP-5)
    - Diesel fuel
- Metals
- Polynuclear aromatic hydrocarbons (PAHs)
- Volatile organic compounds (VOCs)

COCs in groundwater at the Former NFD Point Molate include:

- Petroleum hydrocarbons
    - Bunker fuel
    - JP-5
    - Diesel fuel
- VOCs

Additionally buried solid waste (See Section 2.4) containing the above COCs has been placed in IR Site 1 and at IR Site 3.

## 2.2 Soil

Areas of known environmental impact are shown on Figure 2. They include:

- IR Site 1 – Closed RCRA Landfill
    - Petroleum hydrocarbons
    - Solid waste
- IR Site 3 – Former Treatment Ponds Area
    - Petroleum hydrocarbons
    - Metals
    - PAHs
    - VOCs
    - Solid waste
- IR Site 4 – Drum Lots 1 and 2
    - VOCs (Drum Lot 2 only)
    - Petroleum hydrocarbons
- USTs numbered 1 through 20, collectively referred to as the Hillside USTs
    - Petroleum hydrocarbons

Descriptions of the histories and extent of anthropogenic compounds at each of these areas of known environmental impact are presented in the Phase II Basewide Remedial Investigation Report (TtEMI 2000).

## 2.3 Groundwater

The areas of known groundwater impact include:

- IR Site 1 – Closed Resource Conservation and Recovery Act (RCRA) Landfill
    - Petroleum hydrocarbons
- IR Site 3 – Former Treatment Ponds Area
    - Petroleum hydrocarbons
    - VOCs
- IR Site 4 – Drum Lots 1 and 2
    - VOCs (Drum Lot 2 only)
    - Petroleum hydrocarbons
- Hillside USTs
    - Petroleum hydrocarbons

Free product petroleum hydrocarbons are present in some areas of the Site as described in the most recent groundwater monitoring report (Terraphase 2012a). These areas are largely confined to the immediate vicinity of some of the hillside USTs and IR Site 3.

Descriptions of the history and extent of anthropogenic compounds at each of these areas of known environmental impact are presented in the Phase II Basewide Remedial Investigation Report (TtEMI 2000). Groundwater monitoring results are presented in the semi-annual groundwater monitoring reports prepared for the Former NFD Point Molate. The most recent semi-annual groundwater monitoring report (at the time of the preparation of this SGWMP) is for the 2012 wet season monitoring event (Terraphase 2012c).

## 2.4 Solid Waste

There are two known areas of solid waste disposal, IR Site 1 and IR Site 3. It should be noted that the present version of this SGWMP does not apply to IR Site 3. IR Site 2 (Sandblasting Areas) had been previously contaminated with sandblast grit. All sandblast grit was removed from the known areas of sandblast grit disposal (TtEMI 1998). Sandblast grit encountered in other areas of the Former NFD Point Molate should be considered to be hazardous and the appropriate procedures detailed in Section 5.8.1 of this SGWMP should be implemented if additional sandblast grit is encountered at the Site.

### 2.4.1 IR Site 1

From approximately 1957 until 1979, IR Site 1 was primarily used for disposal of construction and landscaping debris. An investigation was conducted in 1998 to determine the general nature and extent of the waste in the landfill. The estimated volume of fill at IR Site 1 was 20,000 cubic yards (TtEMI 2001a). A soil cover for IR Site 1 was designed in 2001 and constructed in 2002. The soil cover is 3-feet thick, has drainage controls and a monitoring system, and was hydroseeded with an annual native grass for erosion protection. The area of the IR Site 1 soil cover area is shown on Figure 2.

### 2.4.2 IR Site 3

Industrial waste was encountered below the foundations of the former fuel recovery facility (FRF) in IR Site 3 during the March 2001 removal of sumps, piping, and the above ground storage tanks (ASTs) within the former FRF. These waste materials included batteries (approximately the size that would be used in a motor vehicle), steel cables, wood (including pilings), glass bottles, brick, concrete, 5-gallon unlabeled steel containers, and one 55-gallon drum. A buried dock was also encountered, indicating that some of the subsurface wastes could predate the Navy's ownership of the site. Some additional exploratory excavation was conducted, and the extent of the waste area was estimated to be 120 feet long by 60 feet wide. The maximum vertical extent of waste was estimated to be from 2 to 9 feet below ground surface (bgs). Only a thin (approximately 1-foot-thick) layer of waste was found in some areas (See Figure 2 for the location and extent of the FRF). The volume of waste was estimated to be

2,800 cubic yards (TtEMI 2001c). Piles of debris can be seen on the 1949 aerial photograph in the vicinity of the former FRF. By 1959 the FRF had been constructed in the former debris area.

## 2.5 USTs

Two-million-gallon USTs are generally located on the hillsides of the Site. Soil and groundwater contamination detected adjacent to the USTs and former valve boxes are the result of historic spillage and leakage. Free-phase product has been observed at some UST locations. However, those observations are generally limited in extent. As of May 2008, the Regional Water Board had approved closure for 9 of 20 USTs (Tanks 1, 7, 9, 10, 11, 14, 16, 17, and 20). The UST structures remain in place and have not been filled.

The latest round of groundwater monitoring conducted in October/November 2011 indicates that there is 1.06 feet of free product on the groundwater table downhill of Tank 5. Free product was also detected on the groundwater at the groundwater well located downhill of Tank 8 at a thickness of 0.01 feet (Terraphase 2012a).

# 3.0 SUMMARY OF EXISTING DEED RESTRICTION

As discussed below, the CRUP requires RWQCB approval of soil disturbance more than 24 inches below ground surface across the majority of the Site. Upon the approval of this SGWMP by the RWQCB, the RWQCB approves these activities in these areas with the exception of IR Site 3 and IR Site 4, which are subject to further remediation as long as the activities are conducted in compliance with this document.

## 3.1 Summary of Covenant to Restrict Use of Property

A land use control document (LUC) has been developed and recorded for the Former NFD Point Molate. The LUC in this situation is known as a covenant to restrict use, or CRUP, which was recorded in Contra Costa County on March 29, 2010. The CRUP protects the public during the completion of site remediation activities and provides for the necessary access to complete those activities. In some cases, the CRUP may need to be amended as appropriate, depending on the scope of each proposed cleanup action for areas of the Site that do not meet unrestricted use standards. Upstream and the City of Richmond are required to propose amendments to the CRUP, as needed, for Regional Water Board review and approval.

The CRUP places use and activity restrictions on the Site (FOSET Property and the 2003 CRUP; Figure 2) until the RWQCB makes the written determination that the necessary remedial actions have been completed or that the restrictions are no longer necessary to protect human health or the environment. In accordance with the CRUP, the Site (FOSET Property and the 2003 CRUP) shall not be used for any of the following purposes:

- A residence including any mobile home or factory-built housing constructed or installed for use as residential human habitation.
- Hospitals for humans, schools for persons under 21 years of age, day care centers for children, or any permanently occupied human habitation.

In accordance with the CRUP, the Owner or Occupant shall not engage in any of the following activities in or on the Site (FOSET Property or the 2003 CRUP Property), without written approval of the RWQCB:

- Remove and dispose of contaminated soil or groundwater unless in accordance with all applicable Federal, State and local regulations governing removal, transport, and disposal of hazardous substances and hazardous waste;
- Conduct dewatering activities unless in accordance with a RWQCB-approved dewatering workplan;
- Disturb or use existing groundwater monitoring wells and other test wells without the prior written approval of the RWQCB;
- Disturb or excavate soils greater than twenty-four (24) inches below ground surface for any purpose other than environmental investigation or remediation unless Owner or Occupant provides prior notice to, and obtains approval of, the RWQCB to the extent,

and in the manner, such approval is required under an approved soil and groundwater management plan applicable to the relevant area and the proposed excavation is implemented in a manner consistent with the requirements of that soil and groundwater management plan; if the excavation is consistent with the requirements of the applicable soil and groundwater management plan, and that plan does not require additional prior approval by the RWQCB, then no such approval is required for the specific excavation work. If the RWQCB has not approved a soil and groundwater management plan applicable to the area, or if the proposed excavation is inconsistent with the requirements of the soil and groundwater management plan, Owner or Occupant shall obtain RWQCB approval prior to disturbing any soils as described above.

- Install groundwater production wells nor use the groundwater for residential, municipal, agricultural, or industrial uses without the written approval of the RWQCB;
- Use or access USTs or property on or around the USTs for a distance of 150 feet from the perimeter of the UST for any reason in a manner that may disrupt the structural integrity of the USTs, unless a licensed structural engineer certifies that such use, in conjunction with any appropriate mitigation measures, would not adversely affect the structural integrity of the UST, and the local government entity that issues permits for the installation of USTs gives its prior approval for such use;
- Install, place, cover or load the top of any UST with any combination of structures, vehicles, or equipment, unless a licensed structural engineer certifies that such activity, in conjunction with any appropriate mitigation measures, would not adversely affect the structural integrity of the UST, and the local government entity that issues permits for the installation of USTs gives its prior approval to such activity. This restriction shall apply to all USTs;
- Remove any UST, or disturb the soil in preparation for removing a UST, unless in accordance with a RWQCB-approved workplan for such removal or disturbance.

## 3.2 Summary of LUC at IR Site 1

The CRUP prescribes restrictions in the long-term operation and maintenance of the landfill in IR Site 1. According to the CRUP, the land in IR Site 1 shall not be used for any of the following purposes:

- A residence including any mobile home or factory-built housing constructed or installed for use as residential human habitation; and
- Hospitals for humans, schools for persons under 21 years of age, day care centers for children, or any permanently occupied human habitation.

In addition, the CRUP places the following activity restrictions on IR Site 1:

- Engaging in any activity which disturbs, breaches, or otherwise affects the integrity of the soil cover; and

- Extracting or using groundwater for any purpose other than monitoring, remediation, or construction dewatering.

# 4.0 PREPARATORY AND PLANNING ACTIVITIES

Procedures required for planning and preparation prior to the beginning of soil disturbance or demolition activities are summarized below.

## 4.1 Health and Safety

The Contractor will verify that all personnel engaged in the work who may be exposed to impacted soil or groundwater, including air emissions from these media, will have:

- reviewed this SGWMP and signed the Soil and Groundwater Management Plan Review and Acceptance Form (Appendix C);
- reviewed the site-specific HSP prepared by the Contractor and submitted to the City of Richmond Public Works Agency;
- reviewed specific Hazard Safety Analyses (HSAs) for each task (where there is an applicable HSA) they will personally be involved in to inform them of task-specific hazards;
- attended a daily tailgate safety meeting to address the hazards of the work being conducted on site that day; and,
- obtained the required Hazardous Waste Operations (HAZWOPER) Training and Medical Monitoring, if necessary.

Required elements of the contractor HSP will include, but will not be limited to:

- Excavation procedures
- Requirement of OSHA Competent Person for side slopes evaluation
- Air monitoring
- Dust monitoring
- Management of stockpile areas
- Traffic safety, including coordination with Dutra (and/or other neighboring site owners) at their entrance to Western Drive

## 4.2 Site-Specific Work Plans

Site-specific work plans are required within the Former NFD Point Molate for complex subsurface disturbance activities such as construction of subsurface structures, installation of utilities, or major grading. The work plan will provide details of how the soil and/or groundwater will be managed, and, at a minimum, should include the following:

- Site description and background;
- Design criteria, plans, and specifications;
- Description of known impacts at the project site;
- Environmental controls implemented to address known impacts;
- Clean-up goals;

- Work schedule; and
- Description of subsurface disturbance equipment and method.

## 4.3 Notifications

At least 48 hours prior to the start of intrusive site activities, the Contractor will notify the following parties:

- RWQCB Case Officer
- City of Richmond Department of Public Works
- Contra Costa County Department of Environmental Health (for work in proximity to IR Site 1 and monitoring well installations and destruction)

## 4.4 Contra Costa County Well Installation/Destruction Permit

For investigatory borings of greater than 5 feet below ground surface or installation or destruction of groundwater wells, Contra Costa County Environmental Health Department (CCEHD) requires submittal and approval of a well permit. These permits typically require submittal a minimum of 5 days prior to commencing the work activities. Additionally CCEHD requires an inspector to be present during well seal construction or abandonment and sealing of investigatory soil boring location or monitoring wells.

## 4.5 Mobilization of Equipment to the Site

Equipment mobilized to the Site should be clean and free of soil and contamination. This equipment should be in good working order and have no active leaks from engine or hydraulic lines.

## 4.6 Utility Clearance

All underground utility and buried structure locations must be identified before any ground-disturbing activities take place. Underground Service Alert (USA) shall be notified no less than 48 hours prior to conducting activities and additional underground clearance must be performed by a private licensed utility surveyor.

## 4.7 Stockpile Area Identification

Soil stockpile areas will be identified prior to soil disturbance or demolition activities commence. A soil stockpile area map will be prepared and submitted to the City of Richmond Department of Public Works a minimum of 48 hours prior to beginning work. At a minimum, the soil stockpiling map will show locations where working stockpiles of uncontaminated soil, contaminated soil, and import materials will be located. Additionally, based on the activities anticipated, the soil stockpile map shall show the location of import material stockpile areas, demolition debris stockpile areas and other construction material accumulation areas (utility material, building materials, erosion control supplies, etc.). Stockpiles cannot be placed in the following areas:

- IR Site 3 and IR Site 4, without written approval of the RWQCB;
- restricted areas per the biological and cultural constraints described in Section 4.8.

## 4.8 Biological and Cultural Resources Restricted Areas

Prior to commencing field work, the following areas should be delineated, as shown on Figures 3a and 3b:

- mixed riparian habitat setbacks
- beach strand habitat setbacks
- tidal wetland and eel grass avoidance
- wetland area buffer zones
- Suisun Marsh aster setback
- bird nest exclusion areas (as necessary)

### 4.8.1 Mixed Riparian Habitat Setbacks

Per Mitigation Measure 4-2 (AES 2011), the on-site, mixed riparian habitat shown on Figures 3a and 3b shall be avoided to the maximum extent feasible. Additionally per Mitigation Measure 4-3 (AES 2011), a setback of at least 50 feet shall be established (i.e., staked) around all areas of mixed riparian habitat unless the soils, slope, hydrology, vegetation and runoff potential of adjacent construction areas dictate that a greater buffer distance is required. Prior to the onset of intrusive activities, high visibility fencing shall be installed to delineate the riparian setbacks. A qualified biologist shall be present during any soil or ground disturbance, or construction activities that ensue within the vicinity of the fenced riparian setbacks. The qualified biologist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate these avoidance buffers.

In accordance with Mitigation Measure 4-4 (AES 2011), if complete avoidance of mixed riparian habitat is not feasible and/or the project design cannot be reconfigured to avoid the mixed riparian habitat areas on-site, a Lake or Streambed Alteration Agreement (Fish & Game Code Section 1600 et seq.) shall be obtained from the CDFG and habitat replacement ratios defined within the permit conditions shall be implemented for development on fee lands.

### 4.8.2 Beach Strand Habitat Setbacks

Per Mitigation Measure 4-5 (AES 2011), the beach strand habitat on-site shall be completely avoided to the maximum extent feasible. To assure avoidance and avoid impacts to the beach strand habitat on-site (and BCDC jurisdictional areas), the existing roadways shall be used to the extent feasible. Improvement of the existing roadways may be implemented as necessary, but no new roadways shall be built in the vicinity of the beach strand habitat on-site.

In accordance with Mitigation Measure 4-6 in the EIR (AES 2011), setbacks shall be established (i.e., staked) around the beach strand habitat within the footprint and vicinity of field activities.

The minimum setbacks are shown on Figures 3a and 3b. Setback distances for areas of beach strand habitats shall be approved through consultation with BCDC, taking into account the soils, slope, hydrology, vegetative cover, and runoff potential of areas adjacent to beach strand habitat where activities will occur. Prior to start of soil disturbance activities, high visibility fencing will be installed to delineate the beach strand setbacks o the extent the fence can remain intact when completing the work. A qualified biologist shall be present during field activities that take place within the vicinity of the fenced beach strand setbacks. A qualified biologist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate these setback buffers. If complete avoidance is not feasible, consultation with or improvement permit from BCDC would need to be completed prior to beginning the work. Any impacts to beach strand habitat would require explicit approval by BCDC and conditions for such impacts would be specified within a permit, if applicable.

### 4.8.3 Tidal Wetland and Eel Grass Avoidance

Per Mitigation Measure 4-7, the tidal marsh habitat on-site shall be completely avoided. A minimum setback of 50 feet is required around the tidal marsh habitat on-site as a means of preventing any impacts to it from project work as shown on Figures 3a and 3b. The exact width of the tidal marsh setback shall likely be a specified condition of the BCDC permit(s) in work in the vicinity of the tidal wetlands at the Site. Prior to the onset of project work in vicinity of the tidal wetland, high visibility fencing shall be installed to delineate the tidal marsh setback. A qualified biologist shall be present during soil disturbance work to ensure compliance with the setback. The qualified biologist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate this setback buffer with prior written approval of the RWQCB.

Per Mitigation Measure 4-8, the eelgrass bed habitat on-site shall be completely avoided during construction activities. The Eel Grass habitat is located in the submerged lands part of the project. Therefore, work in this area is not contemplated as part of the activities described in the SGWMP, and would require significant consultation with appropriate regulatory agencies including BCDC and National Marine Fishery Service.

### 4.8.4 Wetland Area Buffer Zones

In accordance with Mitigation Measure 4-10 in the EIR (AES 2011), contact with wetlands and/or waters of the U.S. should be avoided to the maximum extent feasible. Setbacks of 50 feet should be established around each of the wetland features within the vicinity of the area of soil disturbance activities, unless an evaluation of the soils, slope, hydrology, vegetation and runoff potential indicate that a greater buffer distance is required. The minimum setback distances are shown on Figure 3a and 3b. Setbacks should be established by installing high-visibility fencing prior to the start of soil disturbance activities to the extent feasible while implementing the work. A qualified biologist will be present during field activities that take place in or in the vicinity of wetland/other waters avoidance buffer zones. The qualified biologist will act as a

construction monitor to make sure the fencing remains intact and that field activities do not cross into the wetland avoidance buffer areas.

Under some circumstances, when fill of the wetlands or intrusion into the buffer is unavoidable, the work shall include written approval of the RWQCB as well as appropriate aquatic resource permits as discussed in Mitigation Measure 4-11 and 4-12.

### 4.8.5 Suisun Marsh Aster Setback

In accordance with Mitigation Measure 4-13 in the EIR (AES 2011), contact with the Suisun Marsh aster population and its on-site habitat should be avoided. Setbacks of 50 feet will be established around the total area where the population occurs, using high-visibility fencing prior to the start of soil disturbance activities. The minimum setback distances are shown on Figure 3b. A qualified botanist will be present during soil disturbance activities in the vicinity of the Suisun Marsh aster setback. The qualified botanist shall act as a construction monitor to ensure that the fencing remains intact and that soil disturbance activities do not penetrate this setback.

In accordance with Mitigation Measure 4-14 in the EIR (AES 2011), if complete avoidance of the Suisun Marsh aster population cannot be reasonably achieved, and impacts to this species are unavoidable, consultation shall be initiated with the CDFG. Upon CDFG approval, the impacted individual plants shall be transplanted out of their existing locations and into an equivalent and suitable wetland feature(s) that occurs within an established on-site open space preserve. A qualified botanist shall determine the exact transplanting locations and shall supervise all of the transplanting activities. Transplanting activities shall occur during the fall months, prior to the onset of heavy rains and inundation of seasonal wetland features to minimize transplant stress to the plants and ensure transplant success. Transplanting activities shall not occur in the spring, summer, or winter months, unless prior approval from the CDFG is obtained.

### 4.8.6 Bird Nest Surveys and Exclusion Areas (As Necessary)

Per Mitigation Measure 4-15 (AES 2011), special-status and/or migratory bird and raptor species have potential to nest within the project site. Generally, the nesting season extends from February through September, with peak activity taking place from March through June. If any field activities are scheduled to occur during the nesting season, pre-construction bird surveys will be conducted. Pre-construction surveys for any nesting bird species will be conducted by a qualified wildlife biologist throughout all areas that are within 500 feet of any proposed field activity. The surveys will occur no more than 14 days prior to the scheduled onset of field activities. If field activities are delayed or halted for more than 14 days, another pre-construction survey for nesting bird species will be conducted. If no nesting birds are detected during the preconstruction surveys, no additional surveys are required.

Per Mitigation Measure 4-16 (AES 2011), if special-status nesting bird species are observed within 500 feet of field work areas during the surveys, consultation will be initiated with the CDFG and/or the United States Fish and Wildlife Service (USFWS). Through consultation, an

appropriate course of action, acceptable setbacks, and a suitable monitoring plan will be determined. If non-special-status nesting birds are observed during the surveys, an appropriate setback will be determined based on the species, the location of the nest(s), and other pertinent biological attributes. Avoidance setbacks will be established around all active nest locations using stakes and high-visibility fencing. Typical setbacks are 250 feet for bird species and 500 feet for raptor species. The nesting bird setbacks shall be completely avoided during the duration of field activities and the fencing must remain intact. The fencing may be removed when a qualified wildlife biologist confirms that nests are no longer occupied and all fledglings have left.

Per Mitigation Measure 4-17 (AES 2011), if impacts (i.e., take) to federal or state threatened or endangered bird species are unavoidable, an incidental take permit from the USFWS/CDFG is required.

### 4.8.7 Bat Surveys and Evacuation (as necessary)

Per Mitigation Measure 4-20, a qualified wildlife biologist shall conduct pre-construction (i.e., any site disturbances) surveys within all potentially suitable bat habitats (i.e., buildings which would be modified or demolished, the pier, and the eucalyptus woodland) that occur within the site and vicinity of any proposed construction activities. If no bats and/or evidence of bats (i.e., guano) are detected during the pre-construction surveys, no additional surveys are required.

Per Mitigation Measures 4-21, if bats and/or evidence of bats are detected during the pre-construction (i.e., any site disturbances) surveys, a qualified bat biologist (i.e., specialist) will facilitate bat evacuation and removal. This typically entails the installation of exclusionary (e.g., mist) nets around occupied habitats while the bats are away from their roosts. The netted habitats shall be monitored frequently at appropriate times and intervals to ensure that all the bats have left the roosts and that no bats re-enter during the entire duration of all field activities. The exclusionary nets will be removed after field activities are completed.

### 4.8.8 Cultural Resources

Per Mitigation Measure 5-2, in the event that any prehistoric, historic, or paleontological resources are discovered during earth-moving activities, all work within 50 feet of the resources will be halted and a qualified archaeologist or paleontologist, as appropriate, shall be consulted to evaluate the significance of the find. If any find is determined to be significant by the qualified professional, then appropriate agency and project representatives and the qualified archaeologist and/or paleontologist will meet to determine the appropriate course of action. All significant cultural or paleontological materials recovered will be subject to scientific analysis, professional museum curation, and a report will be prepared by the qualified archaeologist or paleontologist according to current professional standards.

If human bone or bone of unknown origin is found during site disturbances (field work), all work shall stop within 50 feet of the find and the Contra Costa County Coroner shall be contacted

immediately. If the discovery of human remains is made on federal trust land, the Bureau of Indian Affairs (BIA) archaeologist shall be contacted immediately. If the remains are determined to be Native American, the coroner shall notify the Native American Heritage Commission (NAHC) who shall identify the most likely descendant. The most likely descendant shall work with the BIA, as appropriate, to develop a plan for re-interment of the human remains and any associated artifacts. No additional work will take place within the immediate vicinity of the find until the identified actions have been implemented.

### 4.8.9 Cultural Resource Area Avoidance and Monitoring

Per Mitigation Measure 5-1, all soil disturbing activities within the cultural resource areas (shown on Figure 3b) will be avoided unless a Programmatic Agreement between the City of Richmond, State Historical Preservation Office (SHPO), the Tribe and the BIA is developed to manage such activities. Construction monitoring by a qualified archaeologist shall monitor all earth disturbing activities with 50 feet buffer of these cultural resources.

## 4.9 Specific Preparation for Demolition Work

In addition to the above protocols that must be followed prior to all soil disturbance, dewatering and demolition work, the following additional activities are required prior to beginning demolition activities at the Site.

### 4.9.1 City of Richmond Demolition Permit

A permit from the City of Richmond must be obtained prior to demolition of any structures. As part of the permit application process, the following information is required:

- A “Demolition – Utility Disconnect Verification” form must be signed by Pacific Gas and Electric Company (PG&E) and submitted verifying that utilities have been disconnected;
- The Bay Area Air Quality Management District (BAAQMD) must provide certification that there is not asbestos present in the structures; and
- A Pest Control Clearance Certification from a California state licensed exterminator clearing the structure to be demolished must also be provided as part of the permit application.

### 4.9.2 Asbestos Containing Material Survey

Notification must be made to the BAAQMD at least 10 working days (except in special circumstances) prior to commencement of demolition. As required by the BAAQMD Rule 11-2-303.8, a structure must be thoroughly surveyed for the presence of asbestos-containing material (ACM), including Class I and Class II non-friable ACM, prior to beginning any demolition. The quantity and location of the asbestos samples collected should be based on the US Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) regulations. The survey must be performed by a certified asbestos consultant (CAC) who is

certified by the California Department of Industrial Relations, Division of Occupational Safety and Health (Cal/OSHA) and who has taken and passed an EPA-approved Building Inspector course. The survey shall include sampling and the results of laboratory analysis of the asbestos content of all suspected ACM. This survey shall be made available, upon request by an air pollution control officer from BAAQMD, prior to the commencement of any regulated ACM (RACM) removal or any demolition. RACM is any ACM that is friable. If the suspect ACM is determined to contain greater than 1% asbestos, abatement activities must occur prior to demolition. RACM and Class I and Class II non-friable ACM that will be rendered friable must be removed prior to building demolition. This rule does not apply if the owner or operator asserts that the material to be renovated is RACM and will be handled in accordance with the provisions of BAAQMD Rules 11-2-303, 304 and 401. Abatement activities are described in detail in Section 7.1. Sample collection is described further in the Sampling and Analysis Plan (SAP; Appendix D).

### 4.9.3 Lead Based Paint Surveys

If paint is present on the building to be demolished and the building pre-dates 1978, representative paint chip samples should be sampled for lead to help evaluate OSHA work practices prior to demolition activities. Samples will be collected as described in the SAP (Appendix D).

The U.S. EPA and Department of Toxic Substances Control (DTSC) require that lead-based paint equal to or greater than the US Department of Housing and Urban Development (HUD) definition of lead-based paints (greater or equal to 1 milligram per square centimeter [$mg/cm^2$] or 0.5 percent lead by weight) be removed prior to demolition if the paint is loose and peeling. Representative composite building samples for waste characterization should also be collected in accordance with American Society for Testing and Materials Standard E 1908-97. Lead based paint sampling should be performed by a California certified Inspector/Assessor or a California certified sampling technician, under the direction of a California certified Inspector/Assessor. Sample collection is described further in the SAP (Appendix D).

Further, if lead-based paint is identified on the building structure (greater or equal to 1 $mg/cm^2$ or 0.5 percent lead by weight), near-surface soil samples (within the drip line of the building, generally less than 10 feet from the structure) shall be collected around the structure to determine the potential for residual soil lead contamination, and appropriate soil remediation shall be completed as described in Section 7.3. Soil sample collection from the drip line of buildings is described in Appendix D.

### 4.9.4 Bat Surveys

A qualified biologist shall conduct a pre-demolition survey within the buildings to be demolished. If no evidence of bats is detected, no additional surveys are required. If bats and/or evidence of bats are detected during the pre-demolition surveys, a qualified bat biologist (i.e., specialist) shall facilitate bat evacuation and removal. This typically entails the installation of exclusionary (e.g., mist) nets around occupied habitats while the bats are away from their

roosts. The netted habitats shall be monitored frequently at appropriate times and intervals to sure that all the bats have left the roosts and that no bats re-enter during the duration of the demolition activities.

### 4.9.5 Utility Disconnections

All utilities must be disconnected and capped prior to demolition in accordance with the 2010 California Building Code Chapter 33, Section 3303.6. Proof of the utility disconnections must be provided as part of the City of Richmond demolition permit process.

### 4.9.6 Historical Building Survey

Per Mitigation Measure 5-1, demolition of structures within the Winehaven National Historical District shall not occur without written approval by the City of Richmond Public Works and only compliance with requirements of the SHPO and in compliance with the other elements of this mitigation measure.

The Winehaven District is located within the boundaries of the former NFD Point Molate as shown on Figure 3a. The Winehaven District is listed on the National Register of Historic Places. If a non-contributing element is to be demolished within the boundaries of the Winehaven District, a request for consultation with the State of California Office of Historic Preservation (OHP) must be made pursuant to Section 106 of the National Historic Preservation Act. A formal letter requesting the consultation should be sent to OHP. The letter should include (at a minimum) the following information:

- The date of construction of the building/structure to be demolished;
- A project description;
- A map clearly identifying the project area;
- Photographs of the direct Area of Potential Effect (APE; i.e., the structure to be demolished) and the indirect APE;
- If ground disturbance is required or the building or structure is over 50 years of age, a search of the California Historical Resources Information System will be requested.

If any of the contributing buildings within the Winehaven District are to be disturbed or altered, the 1995 Historical American Building Survey Documentation must be updated and proposed modifications are subject to review by the OHP.

# 5.0 EARTHWORK CONTROL MEASURES FOR SOIL DISTURBING ACTIVITIES

Control measures to be implemented during earthwork activities include, but are not limited to, the following:

- dust control measures;
- decontamination of construction equipment and transportation vehicles;
- dust and air monitoring at the Site or work area perimeter during earthwork;
- storm water management and associated best management practices ("BMPs");
- identification and handling of potentially contaminated soil;
- protocols for evaluating potentially contaminated;
- working in non-contaminated soils;
- working in contaminated soils;
- excavation sampling;
- import soil evaluation;
- biological monitoring, as necessary; and
- archeological monitoring as necessary.

## 5.1 Dust Control

Dust control measures will be performed during construction activities at the Site to reduce dust generation to minimize the exposure of construction workers to dust, and to prevent dust from migrating off-site. Dust generation may be associated with excavation activities, truck traffic, wind traversing uncovered soil stockpiles, loading of transportation vehicles, or other earthwork activities.

### 5.1.1 Dust Management Measures

The following dust management measures shall be followed:

- All work will cease if sustained wind speeds exceed 15 miles per hour (mph) or wind gusts exceed 25 mph. "Sustained" is defined as greater than 5 minutes in a period of one hour. During periods of stop work due to excessive wind speed, all soil stockpiles will be tarped and the facility water truck will continuously water bare soil surfaces. Work will not recommence until the wind speed has been less than 15 mph for at least 30 minutes.
- All construction vehicles entering the construction site shall enter the Site through graveled or non-toxic dust suppressant-treated roadways.
- Off-road parking and travel will be forbidden unless required.
- Vehicle speeds will be limited to 15 miles per hour on the Site.
- Speed limit signs shall be placed at the site entrances.

- All stockpiles which are not being actively built will be tarped or sprayed with a non-toxic chemical dust suppressant acceptable to the RWQCB.

### 5.1.2 Dust and Air Mitigation Measures

These mitigation measures from the EIR shall be followed:

- MM 3-1: Water all active construction areas at least three times daily during dry weather.
- MM 3-2: Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard.
- MM 3-3: Pave or apply non-toxic soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites.
- MM 3-4: Sweep daily, with water sweepers, all paved access roads, parking areas, and staging areas at construction sites.
- MM 3-5: Sweep streets daily, with water sweepers, if visible soil material is carried onto adjacent public streets.
- MM 3-6: Hydroseed or apply non-toxic soil stabilizers to inactive construction areas (previously graded areas inactive for 10 days or more).
- MM 3-7: Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.).
- MM 3-8: Limit traffic speeds on unpaved roads to 15 mph.
- MM 3-9: Install sandbags or other erosion control measures to prevent silt runoff to public roadways.
- MM 3-10: Replant vegetation in disturbed areas as quickly as possible.
- MM 3-11: Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site.
- MM 3-12: Install windbreaks, or plant trees/vegetative windbreaks at windward side(s) of construction areas.
- MM 3-13: Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph.
- MM 3-15: Heavy, diesel-powered equipment idling shall be limited to two minutes.

### 5.1.3 Active Controls

The following active controls shall be followed:

- The project water truck will circulate around the project area to maintain adequate soil moisture.
- Soil drop heights during truck loading will be reduced to the greatest degree practicable. If necessary, a fire hose will be used to wet down soil as it is being loaded to mitigate dust.
- All trucks hauling soil will be tarped before leaving the loading area.

- All trucks will be decontaminated before leaving the site in accordance with Section 5.2.
- Paved areas within the Site will be swept with the project Street Sweeper at the beginning of the work day, at noon, and at the close of the work day and more often if required.
- A temporary fence with a solid surface (tarps) will be erected upwind of the excavation area and any stockpiles.

## 5.2 Decontamination of Construction Equipment and Transportation Vehicles

To minimize tracking of potentially contaminated soil onto roadways, all construction equipment and transportation vehicles that contact soil will be decontaminated prior to leaving the Site. Decontamination methods will include scraping, brushing, or vacuuming to remove dirt on vehicle exteriors and wheels. In the event that these dry decontamination methods are not adequate, methods such as steam cleaning, high-pressure washing, and cleaning solutions will be used, as necessary, to thoroughly remove accumulated dirt and other materials. Wash water resulting from decontamination activities will be collected and managed in accordance with all applicable laws and regulations. Collected wash water that is free of soap or detergent may be filtered and managed along with water generated from dewatering as described in Section 6.0.

## 5.3 Dust and Air Monitoring

Dust and air monitoring will be performed to ensure that site workers and offsite populations are not exposed to unsafe concentrations of airborne contaminants. The Contractor shall assign a minimum of qualified site worker per work area to be responsible for air monitoring. When utilized, field monitoring instruments will be calibrated on a daily basis in conformance with the manufacturer's recommendations.

### 5.3.1 Dust Monitoring

On-site dust monitoring will be performed during soil disturbing and demolition activities. Dust monitoring will be performed on an hourly basis, within 100 feet of the soil disturbing activities, using a Ringelmann No.1 Chart. If the reading on the chart is No. 1 or greater for more than 3 minutes in an hour, work will be stopped and dust management measures will be enhanced.

If work involves the disturbance of potentially contaminated or contaminated soil, perimeter dust and air monitoring will be performed as described in Section 5.3.3.

### 5.3.2 Work Zone Air Monitoring

Work-zone air monitoring will be performed by the Contractor to protect their worker's Health and Safety as necessary. These procedures must be included in the Contractor-prepared HSP. Air monitoring will be performed if potentially contaminated soil is identified at the work site. Air monitoring activities will be conducted in general accordance with the procedures outlined within the EPA guidance document entitled, "Superfund Program Representative Sampling

Guidance, Volume 2: Air (Short-Term Monitoring), Interim Final. 1995. EPA 540/R-95/140. (Office of Solid Waste and Emergency Response [OSWER] Directive 9360.4-09, PB 96-963206)."

### 5.3.3 Perimeter Air Monitoring

Per Mitigation Measure 11-1 (AES 2011), perimeter air and dust monitoring ("perimeter monitoring") will be performed during large-scale soil disturbing activities (>1 acre) and in areas where potentially contaminated soil has been identified by the contractor. Perimeter monitoring will be performed within 50 feet of the boundary of the soil disturbing activity to verify that Contractor implemented control measures performed at the project site are adequate to prevent dust and volatile contaminants from leaving the Site. The perimeter monitoring shall be performed under the oversight of a Professional Engineer or certified Industrial Hygienist independent of the Contractors personnel.

Real-time air monitoring of total dust will be performed using real-time aerosol monitors Personal Data Rams (PDRs) with data loggers to provide immediate information for the total dust levels present. The PDRs will be positioned along the perimeter of the work site, at locations most likely to be in the direction of off-site dust migration from the excavation depending on the wind direction on the day and time of work. Two PDRs will be placed at a height of five feet on fences in the downwind direction to monitor for dust being generated in the excavation and one PDR will be placed upwind of the excavation to measure ambient dust concentrations.

Wind speed and direction will be continuously monitored using a portable calibrated wind sock. Wind speed will also be measured every hour using a hand-held anemometer and the readings recorded in the daily field notes. As discussed in Section 5.1.2, work will stop if the sustained wind speed exceed 15 mph or wind gusts exceeds 25 miles per hour (mph).

The action level for dust concentrations will be 0.150 milligrams per cubic meter ($mg/m^3$), as measured by the PDRs along the fence lines outside of the excavation area. This action level is equivalent to the EPA's National Ambient Air Quality Standards (NAAQS), which are based on risk to human health.

Perimeter monitoring of airborne VOCs will be monitored using a hand-held photoionization detector (PID). PID readings will be collected hourly at the downwind site boundary and twice a day at a location upwind of the excavation to measure ambient VOC concentrations. The action level for VOCs at the site perimeter will be 5 parts per million by volume (5 ppmv). If this action level is exceeded, a second reading will immediately be collected. If the second reading confirms the exceedance of the action level, work will stop, and the efficacy of engineering controls will be evaluated to ensure that they are capable of maintaining the concentration of airborne VOCs at background levels below the action level.

Concentrations of VOCs and particulates as well as calibration notes for the instrumentation will be documented daily at the perimeter through completion of a daily field log.

If the time-weighted average for a work day exceeds the target levels, the RWQCB, City of Richmond Department of Public Works and BAAQMD shall be notified and dust suppression techniques shall be enhanced the following work day. If enhanced dust suppression measures do not sufficiently reduce dust levels for two consecutive days, a construction stand down day will be enforced and an Enhanced Dust Suppression Plan describing the increased effort and new techniques will be developed by the Contractor and submitted to the City of Richmond Department of Public Works. Work shall not resume until the City of Richmond approves the Enhanced Dust Suppression Plan.

## 5.4 Storm Water Management

All work that will disturb more than 1 acre of land area or any soil disturbing activities that are part of a common plan of development that disturbs more than one acre of land will be conducted under the State of California's *General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities* (Construction General Permit) Order No. 2009-0009-DWQ as amended by Order No. 2010-0014-DWQ (NPDES No. CAS000002), issued by the State Water Resources Control Board (SWRCB). In accordance with the Construction General Permit, Permit Registration Documents (PRDs) will be submitted to the SWRCB via the Stormwater Multi-Application and Report Tracking System (SMARTS) by the Legally Responsible Person (LRP), or authorized personnel (i.e., Approved Signatory) under the direction of the LRP. The project-specific PRDs include:

- Notice of Intent (NOI);
- Risk Assessment;
- Site Map;
- Annual Fee;
- Signed Certification Statement; and
- Stormwater Pollution Prevention Plan (SWPPP).

The SWPPP will also be submitted to the RWQCB for review per Task 12 of the RWQCB Order No. R2-2011-0087. A SWPPP Template is available on the California Stormwater Quality Association's (CASQA's) Stormwater Best Management Practice Handbook Portal: Construction (CASQA 2010). In accordance with the Construction General Permit, Section XIV, the SWPPP should be designed taking into account the following:

- Pollutants and their sources, including construction site erosion, are controlled;
- Non-stormwater discharges are identified and either eliminated, controlled, or treated; and
- BMPs are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity to the Best Available Technology/Best Control Technology (BAT/BCT) standard.

For projects that disturb less than 1 acre of land but are located within the setback areas for seasonal wetlands, tidal wetlands, or mixed riparian (Figures 3a and 3b), a project erosion control plan that identifies appropriate structural BMPs specific to the project activity will be prepared by a Professional Engineer and Qualified SWPPP Developer (QSD) including BMPs designed to protect the wetland or riparian areas.

BMPs are measures used to prevent or reduce the potential of pollution from any type of activity. BMPs are a very broad class of measures and may include processes, procedures, scheduling activities, prohibitions on practices, and other management practices to prevent or reduce storm water pollution. For sites with soil disturbance in excess of 1 acre, applicable BMPs will be identified in the SWPPP for erosion control, sediment control, non-storm-water controls, materials and waste management, and post-construction storm water controls. The CASQA website (www.casqa.org) contains factsheets for BMPs that may be implemented on the Site. The BMP factsheets include descriptions and installation/construction requirements for the BMPs. The classes of BMPs available for managing stormwater on the Site are described in the sections below.

### 5.4.1 Erosion Control BMPs

Erosion controls provide effective reduction or elimination of sediment-related pollutants in stormwater discharges from the Site. Erosion controls, also referred to as soil stabilization, consist of source control measures that are designed to prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles.

The following practices can be implemented to provide effective temporary and final erosion control during construction:

- Adjust the construction schedule to allow for sufficient time to install erosion controls when rain is forecast;
- Preserve existing vegetation where required and when feasible;
- Control the disturbed areas such that the Contractor is able to implement erosion control BMPs quickly and effectively;
- Stabilize non-active areas within 14 days of cessation of construction activities, or sooner if stipulated by local requirements;
- Control erosion in concentrated flow paths by applying erosion control blankets or fiber rolls along the graded slopes of the lagoon;
- Prior to the completion of construction, apply permanent erosion control (vegetation) to remaining disturbed soil areas; and

- Maintain sufficient erosion control materials onsite to allow implementation in conformance with this SWPPP.

### 5.4.2 Sediment Control BMPs

Sediment controls are temporary or permanent structural measures that are intended to complement the selected erosion control measures and reduce sediment discharges from the active construction areas. Sediment controls are designed to intercept and settle out soil particles that have been detached and transported by the force of water.

The following sediment control BMPs can be used at the Site:

- Silt fences or fiber rolls can be used to prevent sediment from entering a water body or wetland.
- Inlet protection (such as straw wattle, hay bales, or filter fabric) can prevent sediment from entering the inlets.
- The entrances/exits from the Site can be constructed so sediment is not tracked off the Site.
- The access roads around the Site can be packed dirt and/or gravel and watered as needed during construction activities.
- A tire wash can be utilized at the construction exit to remove sediment from tires and under carriages and to prevent sediment from being transported onto public roadways.
- Water or chemical dust suppressants can be applied as necessary to prevent or alleviate dust nuisance generated by construction activities. Covering small stockpiles or areas is an alternative to applying water or other dust palliatives.

### 5.4.3 Non-Stormwater Control BMPs

Non-stormwater discharges consist of discharges that do not originate from storm events. Non-stormwater discharges into stormwater collection systems or waterways, which are not authorized under the Construction General Permit, are prohibited. Non-stormwater discharges for which a separate NPDES permit is required by the local RWQCB are prohibited unless coverage under the separate NPDES permit has been obtained for the discharge. The selection of non-stormwater BMPs is based on the construction activities (vehicle maintenance, storage, and fueling) with a potential for non-stormwater discharges.

The Construction General Permit provides allowances for specified non-stormwater discharges that do not cause erosion or carry other pollutants. Steps should be taken, including the implementation of appropriate BMPs, to ensure that unauthorized discharges are eliminated, controlled, disposed, or treated on-site. Discharges of construction materials and wastes, such

as fuel or paint, resulting from dumping, spills, or direct contact with stormwater runoff, are also prohibited.

- When non-stormwater and accumulated precipitation (stormwater) must be removed from a work location to proceed with construction work or to provide vector control, manage the discharge of pollutants.
- Vehicles and equipment should be cleaned so that oil, grease, and/or fuel will not enter the waterways.
- Use offsite facilities, fuel in designated areas, enclose or cover stored fuel, implement spill controls, and train employees and subcontactors in proper fueling procedures.
- If maintenance activities cannot be done at an offsite facility, work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately.

### 5.4.4 Materials Management and Waste Management BMPs

Materials management control practices consist of implementing procedural and structural BMPs for handling, storing and using construction materials to prevent the release of those materials into stormwater discharges. The amount and type of construction materials to be utilized at the Site will depend upon the type of construction and the length of the construction period. The materials may be used continuously, such as fuel for vehicles and equipment, or the materials may be used for a discrete period, such as soil binders for temporary stabilization.

Materials and waste management pollution control BMPs should be implemented to minimize stormwater contact with construction materials, wastes and service areas, and to prevent materials and wastes from being discharged off-site. The primary mechanisms for stormwater contact that should be addressed include:

- Direct contact with precipitation;
- Contact with stormwater run-on and runoff;
- Wind dispersion of loose materials;
- Direct discharge to the storm drain system through spills or dumping; and
- Extended contact with some materials and wastes, such as asphalt cold mix and treated wood products, which can leach pollutants into stormwater.

Housekeeping should be part of daily operations. Good housekeeping includes proper operations and maintenance of processes and equipment, proper storage of materials and wastes, maintaining routine cleanup schedules, maintaining well-organized work areas, and

promoting safe work habits of personnel. Specific good housekeeping procedures to be implemented should include:

- Maintaining clean and orderly work areas, with regular sweeping at least once per week indoors and outdoors;
- Regular removal of garbage and waste material;
- Prompt cleanup of spilled materials to prevent migration;
- Proper material and waste storage practices, including adequate aisle space to provide for material transfer and easy access in the event of an emergency; and
- Neat and accessible storage of housekeeping and spill response kits (brooms, vacuums, absorbents, foams, neutralizing agents, containment booms, etc).

The following controls can be used to prevent pollutants from entering the stormwater on the Site:

- Materials will be stored in the staging area;
- Minimize hazardous material use on site;
- Materials will be stored in the staging area and will be watered if necessary to reduce dust generation;
- In the event of a spill (such as fuel), spill kits will be used to prevent the discharge of the contaminant to the storm water;
- Solid waste generated as part of the construction activities will be contained in the staging area and disposed of regularly at an off-site landfill location; and
- Use materials properly and dispose of wastes to prevent or reduce the discharge of pollutants to storm water from hazardous waste.

### 5.4.5 Stockpile Management BMPs

All stockpiles of material at the Site (including import soil and excavation spoils) shall at a minimum follow the protocols:

- Minimum of 50 foot separation from concentrated flows of storm water, drainage courses, and inlets shall be maintained.
- Runoff should be diverted around or away from the stockpile on the upstream perimeter.
- Stockpiles are considered inactive if they will not be used for more than 14 days.

- Inactive stockpiles are required to be covered with plastic tarps or non-toxic soil binder immediately if they are not scheduled to be used within 14 days.
- Protect inactive stockpiles (or portions thereof) from storm water run-on using temporary perimeter sediment barriers such as fiber rolls, silt fences, sandbags, gravel bags, or equivalent approved by Professional Engineer and QSD.
- Active Stockpiles shall be covered on all days with potential of precipitation or active rainfall.
- Stockpiles of Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub base should be covered at all times they are not in use for more than one day, and on all days with potential of precipitation or active rainfall.
- Ensure that stockpile coverings are installed securely to protect from wind and rain. Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

All stockpile BMPS are required to be maintained in good working order and shall be inspected at a minimum once per week in the rainy season from October 15th through April 15th. During the dry season monthly inspection by the Contractor is required. If the project is subject to an individual SWPPP, the SWPPP may require additional inspection as necessary.

Contaminated soil, if stockpiled, should be staged on 10-mil thick plastic sheeting, surrounded by berms and covered as described in Section 8.5.2.

### 5.4.6 Control of Run-on and Runoff

Surface water runon and runoff shall be controlled by directing flowing water away from critical areas and by reducing runoff velocity. Diversion structures such as terraces, dikes, and ditches shall collect and direct runoff water around vulnerable areas to prepared drainage outlets. Surface roughening, berms, check dams, hay bales, use of permeable paving surfaces or other similar measures shall be used to reduce runoff velocity and erosion.

If surface water does come in contact with contaminated soil, it should be handled in accordance with the procedures described below in Section 6.3 (Extraction and Management of Contaminated Groundwater).

### 5.4.7 Post-Construction Storm water Management BMPs

Post-construction BMPs are permanent measures installed during construction, designed to reduce or eliminate pollutant discharges from the Site after construction is completed.

The following erosion controls can be used at the Site on disturbed or exposed areas:

- Vegetation/hydroseeding;
- Straw or wood mulch;
- Soil binders; an alternative to mulches;
- Geotextiles and mats (slopes where erosion hazard is high and vegetation will be slow to establish); and
- Compost blankets.

## 5.5 Identification of Potentially Contaminated Soil

Areas subject to this plan have either received regulatory closure, or have not been identified as requiring further remediation, or are the large USTs that have not received regulatory closure. Petroleum hydrocarbons are the primary type of contaminant expected to be encountered.

It will be the contractor's responsibility to identify potentially contaminated soils during intrusive work activities and proceed accordingly. The initial evaluation of the presence of potentially contaminated soil will be based primarily on contractor field observations.

Soil potentially contaminated by petroleum hydrocarbons can be identified in the field by the following:

- Non-aqueous-phase liquids (free product);
- Petroleum odor;
- Soil staining; and
- Elevated readings indicated by an organic vapor analyzer (OVA) or other field equipment.

Areas immediately adjacent to USTs have a higher-than-average potential for containing petroleum-contaminated soil and/or groundwater.

Other indicators of potentially contaminated soil include the presence of sand blast grit and miscellaneous buried debris, abandoned underground tanks/pipes or other unanticipated types of contamination. When potential contamination that is related to petroleum has been discovered, the Contractor shall follow the protocol discussed for areas where petroleum concentrations exceed the Maintenance Worker Fuel Product Action Levels (FPALs; See Section 5.6).

Site management and equipment operators will survey the work area at the beginning of each workday and routinely throughout each day during demolition and construction operations to check for the presence of potentially contaminated soil. Equipment operators, management,

and other field personnel should be notified of any potential impacted soil within the work area. These locations should be clearly marked with paint, flagging, etc.

## 5.6 Protocol for Evaluation of Potentially Contaminated Soil

If potentially contaminated soil is identified, the presence of contaminants should be confirmed by taking the following steps:

1. Stop operations in the vicinity of the potentially contaminated soil.
2. Soil grab samples should be collected by qualified personnel, with OSHA 40-hour HAZWOPER training, working under the supervision of a California Professional Geologist or California Registered Professional Engineer. Samples will be collected and analyzed as described in the SAP (Appendix D). As dictated by the field construction schedule, expedited (24-hour) turnaround may be required.
3. Soil samples shall be analyzed for:
    a. Total Petroleum Hydrocarbons (TPH) for diesel and bunker fuel by EPA Method 8015B
    b. VOCs by EPA Method 8260B
    c. PAHs by EPA Method 8270C.
4. Site management and field personnel should use their best judgment to assess whether additional sampling and analysis is needed to delineate the extent of encountered impacted soil, including those cases where the field observations and laboratory TPH results suggest increasing concentration trends laterally.

All contaminated soil and soil considered to be potentially contaminated must be managed in accordance with applicable regulations, health and safety requirements, and the applicable procedures described in this plan. Potentially contaminated stockpiles shall not exceed 200 cubic yards prior to sampling.

### 5.6.1 Screening of Soil Analytical Data

The analytical results will be reviewed by a qualified geologist or engineer to evaluate whether excavation/construction can continue. The analytical results will be screened against applicable FPALs established for the Site (TtEMI 2001b), which are presented in Table 1. The following screening approach will be used:

a. If the depth at which the work is being conducted is greater than 5 feet from the groundwater table and concentrations are below Residential FPALs, work can continue without further testing, special soil handling, or further provisions. This soil is considered non-contaminated and can be handled in accordance with Section 5.7.

b. If the depth at which the work is being conducted is less than 5 feet from the groundwater table and concentrations are below the Subsurface Soil Near Groundwater FPALs and the Residential FPALs, work can continue without further testing, special soil handling, or further provisions. This soil is considered non-contaminated and can be handled in accordance with Section 5.7.

c. Soil is considered contaminated if 1) detected concentrations are above Residential FPALs for work conducted greater than 5 feet from the groundwater table; or 2) if the concentrations are above the Residential FPALs or the Subsurface Soil Near Groundwater FPALs for work conducted less than 5 feet from the groundwater table. If the detected concentrations are above the criteria outlined in 1) and 2), but are below Maintenance Worker FPALs, work can continue, with the following procedures and provisions:

    i. Follow notification procedures in Section 5.6.2

    ii. Store contaminated soil in separate stockpiles from non-contaminated soil; follow stockpiling procedures presented in Section 8.5.2

    iii. After excavation is complete, collect soil sampled from the excavation sidewalls and floor, following procedures presented in Section 5.9

    iv. Perform waste characterization of contaminated soil using procedures presented in Section 8.1.

d. If concentrations are above Maintenance Worker FPALs, soil is considered contaminated. Suspend excavation/construction operations and complete the following:

    i. Follow notification procedures in Section 5.6.2

    ii. Consult with qualified geologist or engineer to prepare work plan for additional sampling and additional environmental control protocols that should be implemented in order to continue work.

### 5.6.2 Notifications of Contaminated Soil

Upon discovery and confirmation of contaminated soils, the Contractor is responsible for notifying the following parties in writing within 24 hours of receipt of analytical data.

- RWQCB Case Officer; and
- City of Richmond Department of Public Works.

The written notification shall include the following information:

- Site map showing the approximate location of the contaminated soil;
- Physical description of the contamination and approximate quantities;

- Analytical data and comparison to appropriate screening criteria; and
- Indication of whether work has been suspended and when a work plan for additional sampling will be submitted to the RWQCB, as necessary.

## 5.7 Work in Non-Contaminated Soil

If no potentially contaminated soil is identified or potentially contaminated soils are identified as non-contaminated, work can continue with observation by trained Contractor personnel. The soil can continue to be managed as uncontaminated unless potential contamination is observed during subsequent subsurface disturbance.

Non-contaminated soil will be managed as follows:

- Soil stockpiles will be managed as described in Section 5.4.5.
- Excavated non-contaminated soil will be reused at the Site to the extent feasible. Non-contaminated soil may be placed within 100 feet of the location from which it was excavated. The RWQCB can extend the area for placement with a written waiver.

Any excess soil remaining after the work is complete will be removed from the soil excavation/construction site and either disposed of offsite in an appropriate manner or stored for use in other areas of the Site, in accordance with inactive stockpile procedures contained in Section 5.4.5.

## 5.8 Work in Petroleum Contaminated Soil

### 5.8.1 Petroleum-Contaminated Soil

Petroleum-contaminated soil (and potentially contaminated soil until such time that sampling data shows the soil is non-contaminated) will be managed as follows:

- The soil will be stockpiled as described in Section 5.4.5 with the additional measures described in Section 8.5.2.

Soil exceeding residential FPALs or the Subsurface Soil Near Groundwater FPALs if within 5 feet of the groundwater table cannot be reused at the Site without written permission from the RWQCB.

- If the soil contains known hazardous waste, or there is reason to suspect that the soil contains hazardous waste, reuse at the Site is prohibited.
- Contaminated soil will be characterized, managed and disposed of in accordance with procedures presented in Sections 8.0 and 9.0.

- Equipment and clothing coming in contact with contaminated media shall be disposed of properly or decontaminated prior to leaving the immediate work are where the contaminated soil was encountered.

## 5.9 Excavation Sampling and Analysis

Post-excavation soil sampling and analysis will be conducted in project areas where contaminated soils were identified.

The number and location of soil samples to be collected will depend on the conditions encountered in the field. Samples should be collected under the direction of a qualified Professional Geologist or Registered Professional Engineer. In general, a sampling grid should be established for the excavation floor and sidewalls. One excavation floor confirmation soil sample should be obtained per 50 by 50 square feet grid, or part thereof. For the excavation sidewalls, one soil sample collected every 50 horizontal feet of sidewall and every 10 feet of vertical excavation, or part thereof.

The types of analyses required will depend on area conditions, field observations, and the known history of the area under investigation. However, given the general history and nature of contamination at the Site, the required analytes and analyses required will be:

- TPH for diesel and bunker fuel by EPA Method 8015B;
- VOCs by EPA Method 8260B; and
- PAHs by EPA Method 8270C.

This data will be submitted by a qualified Professional Geologist or Registered Professional Engineer to the RWQCB within 30 days of collection. The data submittal shall include an evaluation whether soil remaining after excavation exceeds FPALs (Table 1) and recommendations for further remedial or investigatory action, as necessary. The sampling and analysis will be performed in accordance with the SAP (Appendix D). If concentrations of contaminants exceed FPALs (Table 1), the excavation will remain open if conditions permit. Prior to backfilling an excavation where the excavation sampling exceed the clean-up goals, RWQCB must approve of the data submittal and recommendations in writing.

## 5.10 Import Soil

Import soil will be required for various construction activities at the Site. Prior to delivery to the Site, representative samples of soil proposed for imported to the Site shall be collected and analyzed as described in this section. The sampling requirements will follow guidance in the DTSC *Information Advisory, Clean Imported Fill Material* (DTSC 2001), as summarized below.

| Volume of Borrow Area Stockpile | Samples per Volume |
|---|---|
| Up to 1,000 cubic yards | 1 sample per 250 cubic yards |

| | |
|---|---|
| 1,000 to 5,000 cubic yards | 4 samples for first 1000 cubic yards +1 sample per each additional 500 cubic yards |
| Greater than 5,000 cubic yards | 12 samples for first 5,000 cubic yards + 1 sample per each additional 1,000 cubic yards |

The fill will be tested for the analytes listed below:

- Metals listed in California Title 22 (EPA Method 6010/6020/7471). If the detected concentrations of one (or more) metal analytes exceed the 10 times the soluble threshold limit concentration (STLC) value (defined in Title 22 CCR, Chapter 11), then each sample that exceeds this threshold shall be analyzed for STLC for that analyte. Currently the only metals that this applies to are barium, beryllium and lead as the screening criteria discussed below for other metals are less than 10 times the STLC.
- Pesticides and polychlorinated biphenyls (PCBs; EPA Method 8081/8082).
- Semi-volatile organic compounds (SVOCs; EPA Method 8270).
- VOCs (EPA Method 8260).
- TPH – gasoline, diesel, and motor oil (modified EPA Method 8015).

In general, soil will be rejected if organic or metals contamination is detected. However, soil may be further considered if chemicals are detected below the screening criteria, which are defined as the lowest level for the contaminant from the RWQCB Region 2 Environmental Screening Levels (ESLs) for shallow soils (less than 3 meters below ground surface) for residential land use, where groundwater is not a current or potential source of drinking water (RWQCB 2008) or the California Human Health Screening Levels (CHHSLs) in soil for residential land use (DTSC 2005). Arsenic results will be compared to 12 mg/kg (equal to one half the background level of 24 mg/kg for arsenic at NFD Point Molate). Soils with concentrations less than the screening criteria can only be imported with RWQCB approval. Prior to use on-site, the RWQCB must approve all fill material, except as noted below.

Sand and aggregate to be used for construction of paved areas, such as roads, parking areas, and sidewalks, will be obtained from commercial aggregate suppliers in the San Francisco Bay Area. Non-recycled aggregate will not be tested for COCs, and RWQCB approval of such material is not required. Recycled aggregate will be tested for COCs as discussed above.

## 5.11 Biological Monitoring

Biological monitoring during soil disturbance activities is required per the EIR when work is being conducted in and around ecologically sensitive areas. As shown on Figures 3a and 3b, portions of the site described as follows require qualified biological monitoring:

- mixed riparian habitat setbacks (Section 4.8.1);

- beach strand habitat setbacks (Section 4.8.2);
- tidal wetland / eel grass avoidance (Section 4.8.3);
- wetland area buffer zones (Section 4.8.4); and
- Suisun Marsh aster setbacks (Section 4.8.5).

Additionally if bird nest are identified during the required pre-construction surveys, biological monitoring may be required of exclusion area (Section 4.8.6.). The biological monitor will be required during all active soil disturbance activities with in the areas shown on Figures 3a and 3b.

## 5.12 Cultural Resource Monitoring

Cultural resource monitoring during soil disturbance activities is required per the EIR when work is being conducted in and around cultural resource areas. As shown on Figure 3b, portions of the site described as follows require oversight by a qualified archeologist (Section 4.8.9):

- CA-CCO-506H; and
- CA-CCO-283.

Soil disturbance with in the Cultural Resource Areas is currently prohibited and monitoring is required if work extends to within the buffer areas.

# 6.0 DE-WATERING MANAGEMENT

Control measures to be implemented during dewatering activities include, but are not limited to, the following:

- identification and handling of contaminated water;
- Extraction and Management of Un-Contaminated Groundwater;
- Extraction and Management of Contaminated Groundwater;
- biological monitoring, as necessary (follow procedures in Section 5.11); and
- cultural resource monitoring as necessary (follow procedures in Section 5.12).

Dewatering could be initiated at the Site to facilitate excavation and subsurface construction work. Uncontrolled and extensive dewatering could adversely impact groundwater by drawing groundwater that contains contamination toward the dewatering area, thus causing those areas to be degraded with contaminants. If it is determined that construction activities require the use of dewatering, the following measures should be followed to minimize the potential impacts.

## 6.1 Identification of Contaminated Waters

All extracted groundwater should be assumed contaminated until shown otherwise. If dewatering is to be performed as part of construction activities at the Site, a review of the most recent groundwater monitoring report available at the time the project is planned should be conducted. If no groundwater data exists in the proposed construction area, groundwater in the planned work areas should be sampled prior to dewatering and analyzed to determine appropriate management and disposal practices. For small projects it may be feasible to store the water in tanks pending analytical results. For larger projects, groundwater should be sampled. Sample collection is described further in the SAP (Appendix D). Analytes for groundwater are required to include TPH (diesel and bunker fuel), VOCs, PAHs, BTEX compounds, metals, pH, and flash point depending on the location of work within the Site and the observed conditions of the groundwater.

To be considered uncontaminated and qualify for discharge to a storm drain under the General Permit, the groundwater analytical results shall not contain a hazardous substance equal to or in excess of quantities established in Table 2.

Groundwater with analytical results above the quantities established in Table 2 should be considered contaminated. In addition, water with a visible petroleum sheen should be considered contaminated and handled in accordance with the procedures described in Section 6.3.

Liquids with a pH less than 2 or greater than 12.5 or a flash point of less than 60.5°C (141°F), are considered hazardous and will require off-site disposal at a hazardous waste facility (discussed in Section 6.3.2).

## 6.2 Extraction and Management of Un-Contaminated Groundwater

### 6.2.1 Discharge to Storm Drain

If the results of sampling indicate the extracted groundwater is not contaminated, the extracted groundwater may be discharged to a nearby storm drain under the Construction General Permit. The discharge must meet the requirements of Part III.C of the Construction General Permit. Part III.C is related to non-stormwater discharges including non-impacted groundwater dewatering. The discharger must also follow best management practices documented in any active SWPPP prepared for the work. Additionally non-storm water discharges must follow the following BMPs derived from *Stormwater Best Management Practice Handbook Portal: Construction* (CASQA 2010) to mitigate potential discharge of sediment laden or turbid waters:

- Notify the RWQCB and City of Richmond Public Works of intent to discharge non-contaminated and non-storm water to the storm drain a minimum of 48-hours prior to discharge.
- Monitor the discharge location and the location where the storm drain discharges to a drainage course or San Francisco Bay for erosive conditions.
- Maintain daily record of approximate quantity of dewatering discharge and condition of treatment train.
- Weir tank(s) shall be utilized prior to discharge, unless other BMP is approved by the RWQCB in writing. Multiple parallel weir tanks may be utilized prior to discharge to the storm drain. The number of weir tanks shall be determined by a professional engineer based on estimated flow volume, constituents of concern, and residency period.
- Treatment capacity (i.e., volume and number of tanks) should provide at a minimum the required volume for discrete particle settling for treatment design flows.
- Periodic cleaning is required based on daily visual inspection or reduced flow.
- Oil and grease disposal should be conducted by a licensed waste disposal company.
- Discharge shall not exceed 250 nephelometric turbidity units (NTU).

### 6.2.2 Sampling and Analyses

Monitoring of the extracted groundwater should continue during dewatering activities. Monitoring should be conducted approximately daily during the first one week of operation and then weekly thereafter. Turbidity analysis shall be conducted daily regardless of duration of dewatering activities. Samples should be collected immediately prior to discharge to the storm drain and analyzed for the COCs identified for the work area. The minimum constituents of concern shall be:

- TPH (diesel and bunker fuel) utilizing silica gel clean-up preparation techniques;
- SVOCs;
- Turbidity; and
- pH

Turbidity and pH should be measured in the field with a calibrated portable instrument suited for these measurements. The remaining samples shall be run on a 24-hour expedited turn around. If concentrations of petroleum related compounds exceed the criteria described Table 2, the groundwater is considered contaminated and protocols described in Section 6.3 should be implemented. If turbidity exceeds criteria in Table 2, the sediment loading reduction techniques should be modified to increase efficiency. If turbidity is exceeded or pH is out of range on 3 consecutive days, work shall be suspended and the RWQCB shall be notified.

## 6.3 Extraction and Management of Contaminated Groundwater

If the results of the analytical testing indicate the groundwater is contaminated, the groundwater will require treatment prior to discharge to the sanitary sewer (if available) or storm drain or off-site disposal at an approved facility. Liquids that are identified as hazardous will require off-site disposal.

### 6.3.1 Treatment

To the extent feasible groundwater should be treated through the existing on-site packaged groundwater treatment plan (PGWTP) located at Site 3. If the on-site PGWTP is not operating or the water cannot be treated with the on-site treatment plant, other options for handling the water exist. An individual NPDES permit (separate from the General Construction Permit) will be required discharge to a storm drain and will identify the treatment and sampling requirements and frequency required to evaluate compliance with the permit requirements. Treatment system design shall be submitted to the RWQCB for review and approval prior to utilization. Typical contaminants encountered in groundwater at the Site are petroleum related and can likely be treated with granular activated carbon.

Un-treated and treated water may be discharged to a sanitary sewer under permit and approval by the local sanitary sewer purveyor. Currently sanitary sewer infrastructure at the Site is not available. Treatment system design shall be submitted to the City of Richmond Municipal Sewer District Sanitary Service for review and written approval prior to discharging to sanitary sewer.

### 6.3.2 Disposal

Non-hazardous liquids may be disposed off-site at a landfill (see Section 9.3) or at the Richmond Municipal Sewer District. Prior approval must be gained from either disposal facility and submittal of analytical data will be required as part of the approval process.

Hazardous liquids must be disposed off-site at an approved hazardous waste facility (see Section 9.4).

# 7.0 BUILDING DEMOLITION

Control measures to be implemented prior to and during building demolition activities include, but are not limited to, the following:

- Asbestos Abatement;
- Lead-Based Paint Abatement;
- Drip line soil remediation;
- Hazardous waste characterization;
- Management of Recycled materials; and
- Management of Non-recyclable materials.

## 7.1 Asbestos Abatement

Federal, State, and local requirements govern the removal of ACM or suspected ACM, including the demolition of structures where asbestos is present. These requirements are promulgated by the EPA, federal and state OSHA, DTSC, and the BAAQMD. All friable (crushable by hand) ACMs, or non-friable ACMs subject to damage, must be abated prior to demolition in accordance with applicable requirements. Friable ACM must be disposed of as an asbestos waste at an approved facility. Non-friable ACM may be disposed of as non-hazardous waste at landfills that will accept such wastes. Workers conducting asbestos abatement must be trained in accordance with State and federal OSHA requirements.

Worker health and safety in California is regulated by Cal/OSHA. California standards for workers dealing with hazardous materials (including hazardous wastes, asbestos, and lead) are contained in California Code of Regulations (CCR) Title 8 and include practices for all industries (General Industrial Safety Orders), and specific practices for construction, and hazardous waste operation and emergency response. Cal/OSHA conducts on-site evaluations and issues notices of violation to enforce necessary improvements to health and safety practices.

Contractors hired to remove ACM shall submit a written ACM abatement plan certified by a qualified CAC to the City of Richmond Public Works Agency at least 48 hours prior to beginning ACM abatement activities and BAAQMD at least 10 days in advance.

The work plan for the removal of ACM shall, at a minimum, contain the following elements:

- Approximate schedule;
- Specification of abatement methods;
- Containment of ACM;
- Protection of workers including air monitoring;
- Clean up during and after abatement;
- Waste management and disposal; and
- Record keeping.

A licensed asbestos abatement contractor shall perform the removal. During abatement, the work area shall be isolated to protect against contamination of other areas to ensure that there is no release of asbestos to other portions of the Site and shall be marked with signage containing the following text: "DANGER ASBESTOS, CANCER AND LUNG DISEASE HAZARD, KEEP OUT, AUTHORIZED PERSONNEL ONLY, RESPIRATORS AND PROTECTIVE CLOTHING REQUIRED IN THIS AREA."

Less than 30 days after completion of the ACM abatement, a report prepared by a Professional Engineer documenting the removal and waste tracking shall be submitted to the City of Richmond Public Works Agency.

## 7.2 Lead Based Paint Abatement

Federal and State regulations govern the demolition of structures where lead or material containing lead is present. Regulations pertaining to demolition of structures with lead-based paint (LBP) are promulgated by the EPA, DTSC, and the HUD. If lead-based paint is identified, federal and State construction worker health and safety regulations shall be followed during demolition activities. Any lead-based paint shall be removed by a qualified lead abatement contractor and disposed of in accordance with existing hazardous waste regulations if the concentration of lead exceeds applicable waste thresholds. Hazardous wastes must be appropriately managed, labeled, transported, and disposed of in accordance with local, State, and federal requirements by trained workers. State and federal construction worker health and safety regulations require air monitoring and other protective measures during demolition activities where lead-based paint is present.

Contractors hired to remove LBP shall submit a written LBP abatement plan certified by a qualified Professional Engineer or Certified Industrial Hygienist (CIH) to the City of Richmond Public Works Agency at least 48 hours prior to beginning LBP abatement activities.

The work plan for the removal of LBP shall at a minimum contain the following elements:

- Approximate schedule;
- Specification of abatement methods;
- Containment of LBP;
- Protection of workers including air monitoring;
- Clean up during and after abatement;
- Waste management and disposal; and
- Record keeping.

Less than 30 days after completion of the LBP abatement, a report prepared by a Professional Engineer documenting the removal and waste tracking shall be submitted to the City of Richmond Public Works Agency.

## 7.3 Drip-Line Lead Affect Soil Remediation

If concentrations of lead in soil in the drip line area (within 10 feet of the outside building wall) exceed the criteria on Table 1, soil shall be removed until confirmation sample shows that concentrations are below the criteria. Sampling is described in Appendix D. This soil shall be managed and disposed of off-site in accordance with the protocols described in Sections 8.0 and 9.0. Less than 30 days after completion after removal of the soil, a written report prepared by a professional engineer documenting the removal shall be submitted the RWQCB and City of Richmond Public Works Agency.

## 7.4 Hazardous Waste Characterization

RACM (greater than 1% asbestos) is considered a non-RCRA California hazardous waste. The U.S. EPA does not regulate asbestos waste as hazardous waste under RCRA. Non-friable bulk ACM is not considered a hazardous waste and is not subject to regulation under Title 22, Division 4.5, of the California Code of Regulations. However, not all landfills will accept this type of waste.

During LBP abatement, LBP materials must be disposed of as a State and/or federal hazardous waste if the concentration of lead exceeds applicable waste thresholds. LBP is considered a state hazardous waste if the total threshold limit concentration (TTLC) concentration exceeds 1,000 mg/kg or if the STLC exceeds 5 milligrams per liter (mg/L). It is considered a federal RCRA hazardous waste if the toxicity characteristic leaching procedure (TCLP) result exceeds 5 mg/L.

## 7.5 Recyclable Debris

Title 4, Chapter 418-14 of the Contra Costa County Ordinance Code requires that at least fifty percent by weight of the total construction and demolition debris generated by a demolition or construction project covering five thousand square feet or more is diverted from landfills through recycling unless the owner has been granted a diversion requirement adjustment pursuant to Section 418-14.012.

To the extent possible, recoverable metal should be segregated from other wastes and transported to licensed metal recycling facility. Tanks and pressure vessels (if encountered) can only be designated for recycling if they comply with the requirements of Section 67383.3 in Title 22 of the California Code of Regulations and they have been rendered non-functional.

Non-hazardous concrete and asphalt may be designated for recycling at an off-site permitted facility. Concrete that exhibits heavy staining or deposits or has a history suggesting sufficient exposure to chemicals of concern, including contact with soils in locations where significant environmental impacts have been detected, will be investigated further to verify it is suitable for recycling.

## 7.6 Non-recyclable Debris

All demolition debris that will not be recycled will be loaded into trucks and hauled to a disposal facility for further recycling or landfill.

Hazardous materials, such as fluorescent light tubes, ballasts, smoke detectors, and mercury switches, must be removed from the buildings prior to demolition. These items should be managed and disposed of by the demolition contractor(s) in accordance with applicable universal and hazardous waste regulations. These items should be transported and disposed of separately from the building material demolition debris.

Federal, State and local worker health and safety regulations shall apply to demolition activities, and required worker health and safety procedures shall be incorporated into the contractor's specifications for the project.

# 8.0 WASTE MANAGEMENT

Waste streams should be segregated. Additionally, incompatible wastes (e.g., flammable and corrosive wastes) should be segregated. Wastes of the same matrix, contamination, and the same source may be aggregated to facilitate storage and disposal. Hazardous wastes shall only be aggregated if carrying the same hazardous waste codes. In any case, hazardous waste shall not be diluted unless specifically allowed by state and federal regulations.

## 8.1 Waste Characterization for Off-Site Disposal

Soil and building debris that is to be disposed off-site will be sampled for waste characterization to evaluate waste disposal options. The number of samples to be collected for waste characterization will depend on the volume of soil to be disposed and on the requirements of the waste-receiving facility. In general, a minimum of one sample will be collected for every 500 cubic yards of waste to be disposed and one sample per project area where soil was unearthed. The sampling protocols are included in the SAP (Appendix D).

At a minimum samples of waste soil should be analyzed for:

a. TPH for diesel and bunker fuel by EPA Method 8015B

b. VOCs by EPA Method 8260B

c. PAHs by EPA Method 8270C

Additionally, soil that is removed from the Drip line of LBP affected structures should be analyzed for lead. Additional analysis may be required by the waste receiving facility or to evaluate the waste as a hazardous waste.

## 8.2 Hazardous Waste

Title 22 CCR Section 66262 and 40 Code of Federal Regulations (CFR) Part 262 consists of regulations applicable to the generation, storage, management, and accumulation of hazardous wastes. Hazardous wastes should be removed from the Site within 90 days from the date of generation. California regulations impose a 90-day hazardous waste accumulation time period regardless of how much hazardous waste is generated. PCB containing wastes exceeding 50 ppm should be removed within 30 days from the date of generation. The date of generation is the day that a waste is first placed in a container or tank.

## 8.3 Waste Storage Areas

Roll-off bins, drums, and tanks of hazardous wastes should be stored in a temporary accumulation area (less than 90 days) designated before the project begins. The designated storage area should be secure. State regulations allow for satellite accumulation of hazardous

waste provided that the generator complies with the states satellite accumulation rules found in 22 CCR 6626.34, which require that:

- Storage containers are in good condition (no rusting or defects).
- Wastes are compatible with the container.
- Containers remain closed except when adding or removing wastes.
- Containers are not opened, handled, moved, or stored in a manner that may rupture or cause the container to leak.
- Areas used for container storage are inspected weekly. Inspections must be documented in a field notebook.

Hazardous waste storage areas shall contain emergency equipment sufficient to respond to the hazard posed by the waste. Typical items in a hazardous waste storage area include fire extinguishers, decontamination equipment, personal protective equipment (PPE), and portable eyewash. Spill control equipment (e.g., sorbent pads) should be available in the waste storage areas and where liquids are transferred from one vessel to another.

Waste material should be stored in a planned and orderly manner that does not endanger the safety of people working in the vicinity. Ensure storage containers (such as drums, tanks or bins) or stockpiles are stable. Storage containers, such as drums, tanks or bins, should be placed in an area where they can be easily accessed to aid in safe handling and loading. Hazardous materials must be stored in accordance with the individual requirements.

## 8.4 Labels

Every waste container is required to be properly labeled. The type of label is dependent upon the container size and/or the contents of the container. The marking on the labels must be permanent and legible, and the completed label must be clearly visible on the container.

The labeling of waste containers should be in accordance with 49 CFR 172, 173, and 178. Labels should include the type of waste, location where the waste was generated, and accumulation start date. Containers, roll-off bins, and tanks used to store/accumulate wastes (including soil and groundwater) shall include one of the following labels:

- "Analysis Pending" – Temporary or handwritten label until analytical results are received and reviewed. This label should include the accumulation start date.
- "Hazardous Waste" - Preprinted hazardous waste label with the following information:
    - Accumulation start date
    - Generator name
    - EPA identification number for site
    - Waste codes

  - For containers of less than 110 gallons, the manifest number must be on the label before transporting.
  - RACM must include the additional warning on the label:
    "Danger Contains Asbestos Fibers
    Avoid Creating Dust
    Cancer and Lung Disease Hazard"
- "Non-hazardous Waste" – Preprinted labels with the following information:
  - Accumulation start date
  - Generator name
  - EPA identification number for site
  - Waste-specific information (e.g., contaminated soil).

Where applicable, the major hazards on the label (e.g., flammable, oxidizer, and carcinogen) should be included on the label.

Hazardous waste labels can be purchased from the following suppliers:

- Label Master; 5724 North Pulasaki Road, Chicago, IL 60646 (800) 621-5808;
- Lab Safety Inc., P.O. Box 1368, Janesville, WI 53547 (800) 356-0783; and
- HCL Labels, Inc., 510 East Maude Ave., Sunnyvale, CA 94086 (800) 421-6710.

## 8.5 Methods to Store Wastes

Wastes shall be stored in one of the following manners and according to the following requirements.

### 8.5.1 Asbestos Containing Materials

RACM must be contained in one of the following ways:

- In sealed, leak-tight, non-returnable containers (e.g., plastic bags of at least 6-mil thickness, cartons, drums, or cans) from which the fibers cannot escape. Additionally, the wastes must be wetted to prevent fibers from becoming airborne in the event that the container is broken. 40 CFR 61.150, or,

- For bulk waste that will not fit into such containers without additional breaking, wet it to prevent blowing of fibers in case the wrapping is broken, then wrap it so it will be leak-tight and seal it with packaging or duct tape. If wrapped and sealed waste is being placed directly in trailers or drop-boxes, the container will need to be lined with plastic sheeting and covered with a tarp. (CCR, title 13, section 66263.23.)

### 8.5.2 Contaminated Stockpiles

Non-hazardous contaminated soils may be stockpiled at the Site. At a minimum, the following procedures should be followed for stockpiling contaminated soils, in addition to the provisions described for all stockpiles in Section 5.4.5:

- Stockpiles should be placed on plastic sheeting near the disturbance areas or within a designated storage area.
- Stockpiles shall be provided with cover and perimeter berm to prevent rupture and release or infiltration of liquids.
- Minimum 10-mil thick plastic sheeting polyethylene sheeting shall be used for liners and covers.
- The perimeter berm, typically hay bales placed beneath the liner, shall be constructed to allow for collection of any free liquids draining from the stockpile.
- Covers and perimeter berms shall be secured in-place when not in use and at the end of each work day, or as necessary to prevent wind dispersion or runoff from major precipitation events.
- Accumulated free liquids on the underlying liner shall be pumped (or otherwise removed) to a container for characterization and disposal per Section 9.
- Accumulation dates shall be maintained in a field notebook for waste stored on site in stockpiles including the date of placement and a general description of the location of excavation.

### 8.5.3 Drums

Drums of wastes should be transported to the designated accumulation area for the project. Drums and roll-off bins (Section 8.5.4) can be utilized to store hazardous soil waste as necessary. Hazardous and non-hazardous waste soil drums should be kept in separate locations. Drums should be inspected and inventoried upon arrival at the Site by the Contractor for signs of contamination and/or deterioration.

Adequate aisle space (e.g., 30 inches) shall be provided for containers such as 55-gallon drums to allow the unobstructed movement of personnel and equipment. A row of drums should be no more than two drums wide. Each drum should contain its own label.

Drums should remain covered except when removing or adding waste to the drums. Covers should be properly secured at the end of each work day. Drums should be disposed of with its contents.

Secondary containment shall be provided for drums of liquid hazardous waste or hazardous wastes that are incompatible with other wastes or materials stored nearby.

### 8.5.4 Roll-off Bins

Covered roll-off bins or drums (Section 8.5.3) may also be used to temporarily store wastes including any waste characterized as hazardous waste unless alternative storage mechanism has

been approved by the RWQCB in writing. Hazardous wastes should not be stored on-site for longer than 90 days.

- Roll off-bins shall be inspected upon arrival on-site by the Contractor. Any roll-off bins that arrive with contents in them should be rejected.
- Roll-off bins for hazardous materials should be provided with covers and disposable liners. Liners shall be disposed of as contaminated debris.
- When not in use, securely fastened covers should be installed on all roll-off bins.
- Old labels should be removed.

### 8.5.5 Portable Tanks

When large quantities of wastewater are generated and stored for short periods of time prior to disposal, portable tanks will be used. To meet the requirements of 22 CCR 66262.34(d)(1) that provide special conditions for use of portable tanks, the storage will be limited to a maximum of 60 consecutive days. Tanks used for storage will meet the following requirements:

- Tanks shall be inspected upon arrival onsite for signs of deterioration and contamination. Any tank that arrives on site already containing liquid content should be rejected.
- Tanks shall be provided with covers.
- Each tank shall be labeled. Tanks containing hazardous waste will be marked with the accumulation start date, composition and physical state of the wastes, waste properties, and name and address of generator.
- Tanks containing hazardous waste or incompatible liquids should be provided with secondary containment.
- Inspections of each tank should be conducted daily.
- Tank valves should be equipped with a chain and lock.

## 8.6 Manifests/Shipping Documentation

Shipping documentation for demolition debris should follow the requirements outlined in Section 9.0.

# 9.0 WASTE TRANSPORT AND DISPOSAL

The transportation and disposal of liquid, soil, and solid waste generated at the Site will be performed in accordance with all applicable federal, state, and local laws, regulations, and ordinances.

This section is intended to meet the requirements of MM 7-1: Soil Disposal Plan from the EIR (AES 2011). This mitigation measure states that the Soil Disposal Plan shall include, but not be limited to, the following:

- Soil haul truck routes;
- Soil disposal sites;
- Barge route (not allowable under this plan, without approval of the RWQCB and other applicable regulatory agencies and in compliance with additional mitigation measures discussed in the EIR [AES 2011]);
- Traffic safety mitigation;
- Road and right-of-way deterioration restoration funding (road deterioration from the remediation work shall be included with the scope of the Contractor to the extent they cause such deterioration);
- Limits on times haul trucks and barges can operate;
- A two week notice shall be given to residents of the San Pablo Peninsula regarding any temporary blockage on Western Drive; and
- Determine alternate construction and operational access routes during times of roadway construction in the vicinity of the project site.

Additionally, this section is intended to meet the requirements of MM 7-3: Construction Coordination Plan for remediation waste soil operations from the EIR (AES 2011). Per this requirement the protocol present in this SGWMP will be followed and California Department of Transportation will also be notified 24-hours in advance of when 20 or more trucks of waste materials are leaving the Site per day.

The results of characterization and profile sampling will be used to determine how the wastes should be transported and disposed. A contractor licensed for commercial transportation shall transport non-hazardous waste. In the event that a generated waste is hazardous, the transporter must be licensed in accordance with 49 CFR 171-179. A copy of the documentation indicating that the selected transporter has appropriate licenses must be received prior to transport of any waste material.

When necessary, water spray or mist will be applied for dust control purposes during soil or solid waste loading activities. Each truck will receive the proper placards and paperwork prior to leaving the Site.

Prior to leaving the Site, the exterior of the transporting vehicle (including the tires), will be cleaned in order to remove any waste material present and to prevent material being tracked into public roadways. Tarps will be secured over loaded solid materials to prevent release of soil or dust during transport. Prior to leaving the Site, all trucks will be inspected by the Contractor to ensure that the payloads are properly loaded and adequately covered, the vehicles are cleaned of soil, and that the shipment is properly documented. Loading, decontamination and covering loads will not be permitted in the public right-of-ways including Western Drive and Western Drive shall remain passable to traffic 24 hours per day and 7 days per week to all traffic including Emergency Response vehicles per mitigation measure 7-2 of the EIR (AES 2011).

## 9.1 Trucking Requirements

The Contractor will be responsible for weighing loads at a certified scale. For each load of material, weight measurements shall be obtained for each full and empty container, dump truck, or tanker truck. Disposal quantities will be based on the difference of weight measurements between full and empty container, dump truck, or tanker truck. Weights will be recorded on the waste manifest or bill of lading. The contractor should provide copies of weight tickets with the final manifest or bill of lading/invoice to the City of Richmond or their designated representative within 2 weeks of off-site disposal.

The Contractor must observe the following practices when hauling and transporting wastes off-site:

- Obey all state, federal, and local requirements for transportation of wastes.
- Minimize impacts to general public traffic. Trucks entering/merging onto any roadway or highway shall be separated by a minimum of one minute travel time.
- Repair road damage caused by construction and/or hauling traffic.
- Clean up material spilled in transit.
- Line and cover trucks/trailers used for hauling contaminated materials to prevent releases.
- Decontaminate vehicles prior to reuse, other than hauling contaminated material.
- All personnel involved in off-Site disposal activities should follow safety and spill response procedures outlined in the HSP.
- No materials from other projects may be combined with materials from the Site.

- Trucks transporting liquids must be sealed.

## 9.2 Recyclable Materials

To the extent possible, recoverable metal should be segregated from other wastes and transported to a licensed metal recycling facility. Tanks and pressure vessels (if encountered) can only be designated for recycling if they comply with the requirements of Section 67383.3 in Title 22 of the California Code of Regulations and they have been rendered non-functional. The following licensed metal recycling facilities are located near the Site:

- Simms Metal Management
  600 South 4th Street
  Richmond, California 94804

Non-hazardous concrete and asphalt may be designated for recycling at an off-site permitted facility. Concrete that exhibits heavy staining or deposits or has a history suggesting sufficient exposure to chemicals of concern, including contact with soils in locations where significant environmental impacts have been detected, will be investigated further to verify it is suitable for recycling. The following licensed facilities are located near the Site and will take asphalt and concrete for recycling:

- Dutra Materials
  961 Western Dr.
  Richmond, CA 94801

Other recycling facilities may be acceptable based on City of Richmond written approval.

## 9.3 Non-Hazardous Waste Disposal

Wastes that have been characterized as non-hazardous and do not exhibit the Department of Transportation (DOT) hazard class characteristics are not regulated under DOT rules for hazardous materials transport. Materials classified as Class II or Class III Waste will be transported to a Class II or Class III (Subtitle D) facility. There are several Class II and Class III landfills within 150 miles of the Site. These include:

- Keller Canyon Landfill (Class II)
  901 Bailey Road
  Pittsburg, California
  925-449-6349

- Altamont Landfill (Class II)
  10840 Altamont Pass Road
  Livermore, California
  925-455-7300

- Hay Road Landfill (Class II)
  6426 Hay Road
  Vacaville, California
  707-678-4718

- Ostrom Road Landfill (Class II)
  5900 Ostrom Road
  Wheatland, California
  530-743-6321

- Forward Inc. Landfill (Class II)
  9999 S Austin Road
  Manteca, California
  209-982-4298

- Austin Road Landfill (Class III)
  9999 S Austin Road
  Manteca, California
  209-982-4298

- Guadalupe Landfill (Class III)
  15999 Guadalupe Mines Road
  San Jose, California
  408-268-1666

- Vasco Road Landfill (Class III)
  4001 North Vasco Road
  Livermore, California
  925-447-0491

- Kirby Canyon Landfill (Class III)
  910 Coyote Creek Golf Drive
  Morgan Hill, California
  408-779-2206

- Newby Island Landfill (Class III)
  1601 Dixon Landing Road
  Milpitas, California
  408-432-1234

Other Class II or Class III facilities may be acceptable based on City of Richmond written approval.

## 9.4 Hazardous Waste Disposal

Hazardous wastes transported offsite for disposal or recycling will be performed in accordance with the DOT Hazardous Material Transportation regulations of 49 CFR Parts 171 through 180, 40 CFR Part 262, Part B, and Title 22 CCR Section 66262, which involve packaging, placarding, labeling, and manifesting requirements. Materials classified as Class I Waste will be transported to an appropriate Class I (RCRA Subtitle C) Treatment, Storage, and Disposal (TSD) facility. There are three Class I landfills within 500 miles of the Site. These include:

- Kettleman Hills Landfill (215 miles from the Site)
  35251 Old Skyline Road
  Kettleman City, California
  559-309-7688

- Clean Harbors Facility (260 miles from the Site)
  2500 West Lokern Road
  Buttonwillow, California
  661-762-6200

- US Ecology Facility (445 miles from the Site)
  Highway 95 - 12 miles South of
  Beatty, Nevada
  775-553-2203

Other Class I facilities may be acceptable based on City of Richmond written approval.

## 9.5 Transportation and Disposal Manifests and Logs

Transportation of wastes (soil, demolition debris, etc.) shall be inventoried the day of transportation from the Site using the Transportation and Disposal Log (Appendix E) by the Contractor. A carbon copy or Xerox copy of the initial manifest or bill of lading form for each load shall be retained on site and attached to the Transportation and Disposal Log. All required transportation manifests shall be prepared and signed by the City of Richmond /current Site Owner or an official representative. This information will be submitted daily to the City of Richmond Public Works Agency or their designated representative.

When the waste is profiled as non-hazardous waste, a proper shipping document (such as a bill of lading or invoice) of the hauler will be used to document and accompany each shipment. At a minimum, the non-hazardous waste shipping document should include the following information:

- Name and address of waste generator.
- Name and address of waste transporter.
- Name and address of disposal facility.
- Description of the waste.
- Quantity of waste shipped.

If the waste is profiled as hazardous waste, the Uniform Hazardous Waste Manifest form will be used to track the movement of the hazardous material from the point of generation to the point of ultimate disposition. Prior to transporting the material off-Site, an authorized representative will sign each hazardous waste manifest. The hazardous waste hauler will then sign the manifest and distribute one signed copy to the Contractor. A copy of the hazardous waste manifest for each truckload should be maintained for the duration of the work. At a minimum, the Uniform Hazardous Waste Manifest form must include the following information:

- Name and address of waste generator.
- Name and address of waste transporter.
- Name and address of disposal facility.
- Description of the waste.
- Quantity of waste shipped.

## 9.6 Haul Routes

Transportation of materials will take place on arterial streets and/or freeways, approved for truck traffic, to reduce potential impact on the local neighborhood. Trucks approaching the NFD Point Molate from Interstate 580 (I-580) will use the exit labeled Western Drive, Point Molate. Designated loading areas must be established as part of the planning process for work that will be conducted within the NFD Point Molate and will vary depending on location, scope and phase of work. In general, the transport trucks will exit the Site on Western Drive towards I-580. A caution sign will alert drivers to nearby truck traffic related to Dutra Quarry. Signage will direct drivers to bear left onto Western Drive. If it becomes necessary, a flag person will be stationed at this intersection to coordinate truck traffic entering and exiting the site as well as Dutra Quarry. Appendix F includes the general routes that will be followed to various waste disposal facilities from NFD Point Molate.

## 9.7 Hauling Hours of Operation

Transportation of materials can take place from 6am to 6pm. To the extent possible, there will be no loading or transporting at night.

# 10.0 EMERGENCY ACTIONS

If an emergency situation arises that requires medical attention, containment assistance, or other emergency assistance, dial 911 and follow emergency procedures given in the Contractor's Health and Safety Plan.

An emergency response subsurface disturbance is any immediately necessary activity that would result in the disturbance of soil, such as utility pipeline repair activities that cannot wait until for all the control measures in this report to be implemented. To the extent feasible, the Contractor or City of Richmond personnel completing the emergency action shall follow the protocols in the SGWMP. Upon identification of a situation requiring emergency subsurface disturbance, the RWQCB, City of Richmond, and CCEHD should be notified within 24 hours. This section provides the procedures that will be followed for emergency response subsurface disturbances.

## 10.1 Utility Repair

If emergency utility repair is required, it should be assumed the soil has the potential to be contaminated and the procedures for handling excavated soil should be stockpiled as described in Section 8.5.2.

## 10.2 Landslides

In the event of a landslide, the area of the landslide should be inspected immediately to mitigate any flooding hazard that might result from a blockage of drainage routes. It should be assumed that soil removed from a landslide has the potential to be contaminated and should be stored and handled in accordance with the procedures in Section 8.5.2.

# 11.0 NOTIFICATIONS AND REPORTING

Table 3 provides contact information for the notification and reporting discussed in this SGWMP. Additional notifications should be made to other entities identified not identified on the table (such as PG&E, Cal-OSHA, etc.) as appropriate and required by law.

This Section summarizes these reporting and notifications.

## 11.1 City of Richmond Department of Public Works

The following activities require notification to the City of Richmond Department of Public Works:

- Intent to conduct soil disturbing activities (48-hour prior to commencing)
- Perimeter air monitoring location exceeds target criteria (within 24 hours of occurrence)
- Discovery of contaminated soils (within 24 hours of confirmation that soils exceed criteria)
- Intent to discharge non-contaminated and non-storm water to the storm drain (48-hour prior to commencing)
- Circumstances that require emergency response (within 24 hours of incident)

The following activities require submittals to the City of Richmond Department of Public Works:

- Contractor Health and Safety Plan (Section 4.1);
- Stockpile Area identification Map (Section 4.7);
- Demolition Permit (Section 4.9);
- Enhance Dust Suppression Plan (Section 5.3);
- SWPPP (Section 5.4);
- ACM Abatement Plan (Section 7.1);
- LBP Abatement Plan (Section 7.2);
- Drip Line Lead Affected Soil Removal Summaries (Section 7.3); and
- Waste Tracking Forms and Manifests (Section 9.5).

## 11.2 Regional Water Quality Control Board

The following activities require notification to the RWQCB:

- Intent to conduct soil disturbing activities (48-hours prior to commencing);
- Perimeter air monitoring location exceeds target criteria (within 24 hours of occurrence);
- Discovery of contaminated soils (within 24 hours of confirmation that soils exceed criteria);
- Intent to discharge non-contaminated and non-storm water to the storm drain (48-hours prior to commencing);

- Turbidity or pH out of compliance on non-storm water discharge to storm drain (within 24 hours); and
- Circumstances that require emergency response (within 24 hours of incident).

The following activities require submittals to the RWQCB:

- Request for variance form this plan (Section 1.4);
- SWPPP (Section 5.4; to State Water Resource Control Board also);
- Work plan for additional sampling in areas with confirmed contaminated soils (Section 5.6); and
- NPDES permit application and treatment system design for dewatering activities of contaminated groundwater (Section 6.3).

## 11.3 Contra Costa County Environmental Health Department

The following activities require notification to the CCEHD:

- Work with the buffer areas of IR Site 1 disposal area (48-hour prior to commencing).

The following activities require submittals to the CCEHD:

- Investigatory borings and monitoring well construction and abandonment permit applications (Section 4.4).

## 11.4 Bay Area Air Quality Management District

The following activities require notification to the BAAQMD:

- Asbestos abatement work will be occurring (10 days prior to work commencing); and
- Perimeter air monitoring location exceeds target criteria (within 24 hours of occurrence).

## 11.5 Other Notifications

The following activities require notification of other agencies and parties:

- California DOT that more than 20 waste trucks per day will be leaving the site (24-hours prior to commencing the work);
- USA prior to digging (48-hours prior to commencing the work;
- Contra Costa County Coroner upon discovery of human remains; and
- NAHC upon discovery of human remains that are confirmed to be of Native American descent.

# 12.0 PROTECTION OF EXISTING ENVIRONMENTAL CONTROL FEATURES

The following site features must be protected during construction activities.

## 12.1 Groundwater Monitoring Wells

Groundwater monitoring wells are shown on Figure 4. These wells require routine monitoring as part of the site-wide groundwater monitoring activities that are required at the Site. If a monitoring well is damaged during construction activities, it must be replaced under a permit from CCEHD.

## 12.2 Landfill Cap

In accordance with the existing land use restrictions, no activities shall be conducted within the boundaries of IR Site 1 (the landfill) that will disturb the soil cover (the cap).

## 12.3 UST French Drains and Outfalls

No intrusive activities or driving on top of the structurally closed large UST is permitted without written approval of the RWQCB and CCEHD.

French drains at each UST are intended to direct surface water away from the structural joint between the tank ceiling and upper sidewalls. There are at least two outfalls for the French drain at each UST. Rip-rap is placed at each outfall to reduce erosion. The locations of the USTs and French drain outfalls are shown on Figure 5.

# 13.0 CONTRACTOR TRAINING

## 13.1 General Site Personnel

Site personnel will be familiar with this SGWMP and the project-specific HSP, which will be prepared by the Contractor. A minimum of one hour of training will be provided to all site personnel. Following the training, site personnel will sign the Soil and Groundwater Management Plan Review and Acceptance Form (Appendix C).

Workers will receive training on the potential hazards associated with exposure to suspected contaminated soil for each work task they may need to perform. The training should be of sufficient length to cover the following topics, at a minimum:

- Description of contamination that has been historically found at the Site (Section 2);
- The types of hazards site personnel may be exposed to during each work task, including, but not limited to, chemical hazards (Section 2.0);
- The potential health risks associated with chemical hazards present at the Site (Appendix B);
- How to identify potentially contaminated soil (Section 5.5);
- How to identify potentially contaminated groundwater (Section 6.0);
- Description of biological and cultural resource areas (Section 4.8); and
- The use and limitations of PPE.

# 14.0 OTHER MANAGEMENT PLANS

The following plans have already been created and the routine monitoring and maintenance activities described are conducted regularly. The activities described in these plans will be performed in compliance with the SGWMP and must continue until the appropriate regulatory agency approves that the monitoring activities described in the plans are no longer required:

- LTGW Monitoring - Groundwater Monitoring is required at the Site. The *Site-Wide Groundwater Monitoring Plan* (GWMP; Terraphase 2011a) describes the groundwater monitoring activities required at the Site.

- Landfill Monitoring and Maintenance Plan - The *Final Postclosure Maintenance and Monitoring Plan (PMMP), Site 1 Final Cover, Naval Fuel Depot Point Molate* (TtEMI 2002) describes the long-term maintenance and monitoring requirements for the Site 1 Landfill Cover.

- UST Inspection and Maintenance Plan - The *Post-Closure UST Maintenance and Monitoring Plan* (Innovative Technical Solutions, Inc. [ITSI] 2005) describes the long-term maintenance and monitoring requirements for the 20 USTs that remain at the Site.

- PGWTP NPDES OM&M - Monitoring of the PGWTP must comply with the provisions set forth Attachment E of the California Regional Water Quality Control Board (RWQCB) Order No. R2-2012-0012, NPDES Permit No. CAG912002, titled "GENERAL WASTE DISCHARGE REQUIREMENTS FOR: Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Volatile Organic Compounds (VOC), Fuel Leaks and Other Related Wastes (VOC and Fuel General Permit)."

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# TABLES

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**Table 1**
**Fuel Product Action Levels**
Former Naval Fuel Depot Point Molate
Richmond, California

| Chemical | Residential (mg/kg)[a] | Maintenace Worker[b] (mg/kg) | Subsurface Soil Near Groundwater (mg/kg) |
|---|---|---|---|
| | | | ≤ 5 ft[c] |
| TPHg (Gasoline) | 1,030[d] | 5,900[e] | 1,690 |
| TPHd (Diesel) | 1,380[e] | 6,700[e] | 1,950 |
| TPHr (Residual/Fuel Oil) | 1,900[e] | 9,400[e] | 2,730 |
| Benzene | 0.60 | 5.0 | 1 |
| Toluene | 530 | 12,800 | 14 |
| Ethylbenzene | 840 | 6,600 | 19 |
| Xylenes | 1,080 | 109,000 | 4,340 |
| **Carcinogenic PAHs** | | | |
| Benzo(a)pyrene | 0.04 | 0.15 | 9 |
| Benzo(b)fluoranthene | 0.43 | 1.50 | 64 |
| Benzo(k)fluoranthene | 0.43 | 1.50 | 64 |
| Benzo(a)anthracene | 0.43 | 1.50 | 23 |
| Chrysene | 4.30 | 15 | 151 |
| **Noncarcinogenic PAHs** | | | |
| Anthracene | 5,900 | 17,800 | 1,120 |
| Benzo(g,h,i)perylene | 620 | 1,700 | 19,500 |
| Fluoranthene | 820 | 2,300 | 1,160 |
| Fluorene | 770 | 2,300 | 220 |
| Naphthalene | 480 | 2,300 | 140 |
| Phenanthrene | 600 | 1,700 | 410 |
| Pyrene | 620 | 1,700 | 910 |

Notes:
mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbons
PAH = polycyclic aromatic hydrocarbons
a = Fuel constituents present at less than 10 feet below ground surface
b = Action level based on park maintenance worker/groundskeeper, but also includes construction worker, less than 10 feet below ground surface.
c = Soil cleanup levels are risk-based for maintenance worker, less than 5 feet above the highest groundwater level but less than 10 feet below ground surface.
d = Based on n-hexane as a surrogate compound
e = Based on naphthalene as a surrogate compound

Source
TetraTech EM, Inc. 2001. Final Fuel Product Action Level Development Report, Naval Fuel Depot Point Molate, Richmond, California. August 31.

**Table 2**
**Groundwater Criteria for Discharge to Storm Drain**
Former Naval Fuel Depot Point Molate
Richmond, California

| Analyte | Units | Criteria |
|---|---|---|
| **Water Quality Parameter** | | |
| pH | SU | 6.5 to 8.5 |
| Turbidity | NTU | 250 |
| **Petroleum Hydrocarbons** | | |
| TPH (gas or diesel) | µg/L | 50 |
| TPH (bunker) | µg/L | 300 |
| **Volatile Organic Compounds** | | |
| Benzene | µg/L | 5 |
| Total Xylenes | µg/L | 5 |
| Ethylbenzene | µg/L | 5 |
| Toluene | µg/L | 5 |
| **Polycyclic Aromatic Hydrocarbons** | | |
| Benzo(a)anthracene | µg/L | 0.020 |
| Benzo(a)pyrene | µg/L | 0.020 |
| Benzo(b)fluoranthene | µg/L | 0.020 |
| Benzo(k)flouranthene | µg/L | 0.020 |
| Dibenzo(a,h)anthracene | µg/L | 0.020 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.020 |

Notes:
µg/L = micrograms per litre
NTU = nephelometric turbidity unit
SU = standard units
TPH = total petroleum hydrocarbons

References:

San Francisco Bay Regional Water Quality Control Board (RWQCB). 2012. General Waste Discharge Requirements for Discharge or Reuse of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Volatile Organic Compounds (VOC), Fuel Leaks and Other Related Wastes (VOC and Fuel General Permit), Order R2-2012-0012 NPDES No. CAG912002. February 8.

State Water Resources Control Board (SWRCB). 2010. National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities Order 2009-00009-DWQ (amended by 2010-0014-DWQ) NPDES No. CAS000002. November 16.

**Table 3**
**Notification Contact List**
Former Naval Fuel Depot Point Molate
Richmond, California

| Contact | Contact Name | Phone |
|---|---|---|
| **Emergency Notification (within 24 hours)** | | |
| Regional Water Quality Control Board | George Levya | (510) 622-2379 |
| City of Richmond Department of Public Works | Yader A. Bermudez | (510) 231-3008 |
| Contra Costa County Environmental Health Department | Lori Braunesreither | (925) 692-2528 |
| **Additional Notifications (as required)** | | |
| Bay Area Air Quality Management District* | | (415) 749-4762 |
| California Department of Transportation | | (510) 286-4444 |
| Contra Costa County Coroner | | (925) 313-2850 |
| Native American Heritage Commission | | (916) 653-4082 |
| PG&E | | 1-800-743-5000 |
| Cal OSHA (excavation deeper than 4-feet requiring entry) | | (510) 622-2891 |
| USA (Dig Alert) | | (800) 227-2600 |

* Demolition Notification forms can also be obtained from the BAAQMD website at
http://www.baaqmd.gov/Divisions/Compliance-and-Enforcement/Asbestos-Programs/Asbestos-ATCM.aspx

# FIGURES

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File Name: Fig_1_Site_Location_0001.001.024 Prepared by: EM Checked by: RJ

| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: Upstream Point Molate, LLC | **Site Location Map** |
| terraphase engineering | PROJECT: IR Site 3 Soil Gas Investigation | |
| | PROJECT NUMBER: 0001.001.024 | **FIGURE 1** |

# LEGEND

- Former Underground Storage Tank
- Not the Subject of this Soil and Groundwater Management Plan (IR Site 3 and IR Site 4)
- Property Boundary
- FOSET Property
- 2003 CRUP Property

North Shoreline Area

Fuel Recovery Facility

IR Site 3 (Former Treatment Ponds)

San Francisco Bay

IR Site 1
Waste Disposal Area (Landfill)

IR Site 2
Removal Areas

IR Site 2
Removal Areas

South Shoreline Area

IR Site 4
(Drum Lot 1 and Drum Lot 2/Building 87)

San Francisco Bay

OFFSHORE FACILITY BOUNDARY

N

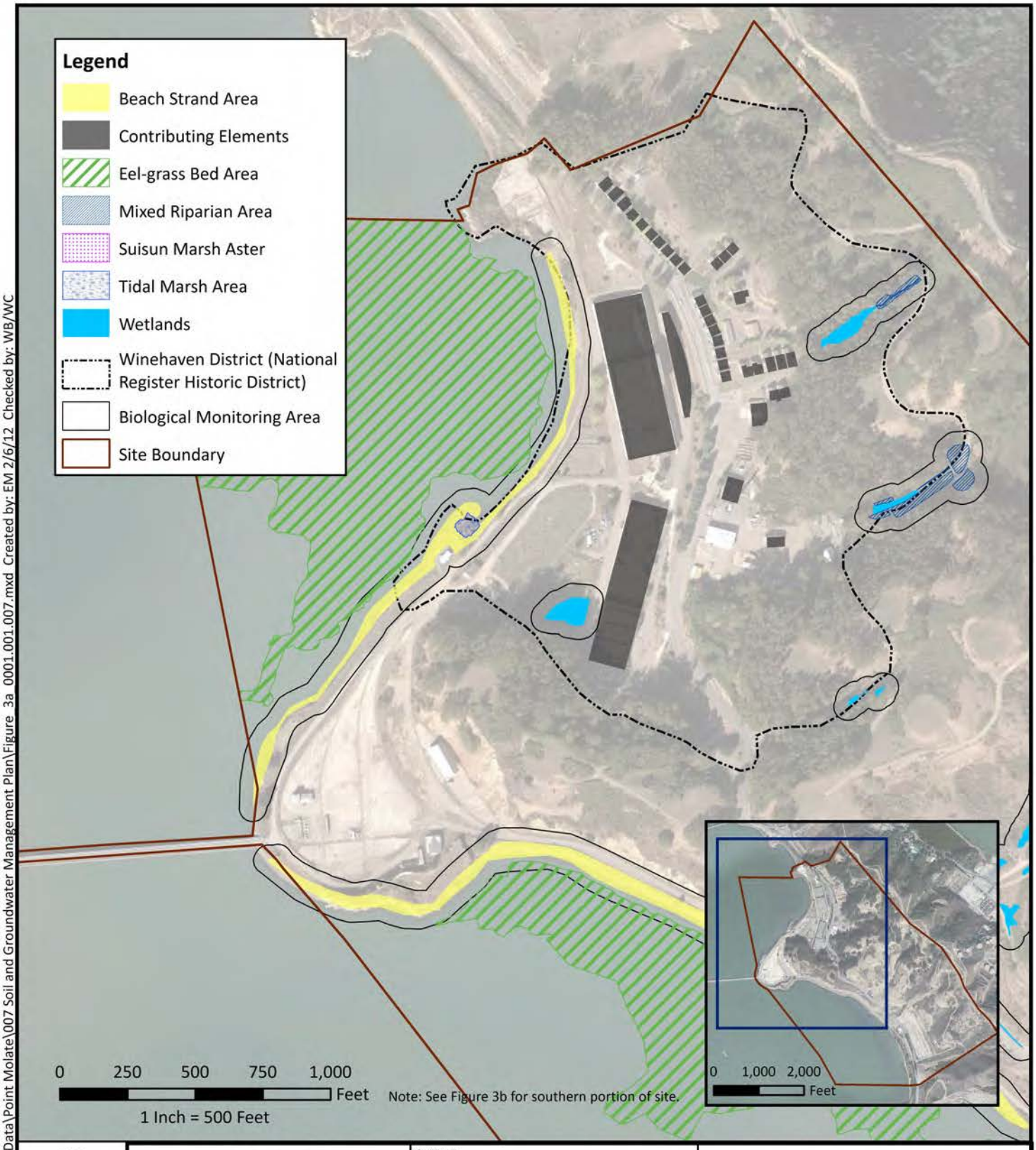
0' 250' 500' 1000'

Approximate Scale in Feet

Drawn by: KW ; Checked by: WB

J:\CADD FILES\0001 Point Molate\Soil and GW\SoilandGWManagementPlan.dwg Drawn

| | | |
|---|---|---|
| SAFETY FIRST | CLIENT: Upstream Point Molate, LLC | Site Features |
| terraphase engineering | PROJECT: Point Molate Soil and Groundwater Management Plan | |
| | PROJECT NUMBER: 0001.001.007 | Figure 2 |

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SAFETY FIRST

terraphase engineering

CLIENT: Upstream Point Molate, LLC

PROJECT: Point Molate Soil and Groundwater Managment Plan

PROJECT NUMBER: 0001.001.007

**Biological and Cultural Resource Areas North**

**FIGURE 3a**

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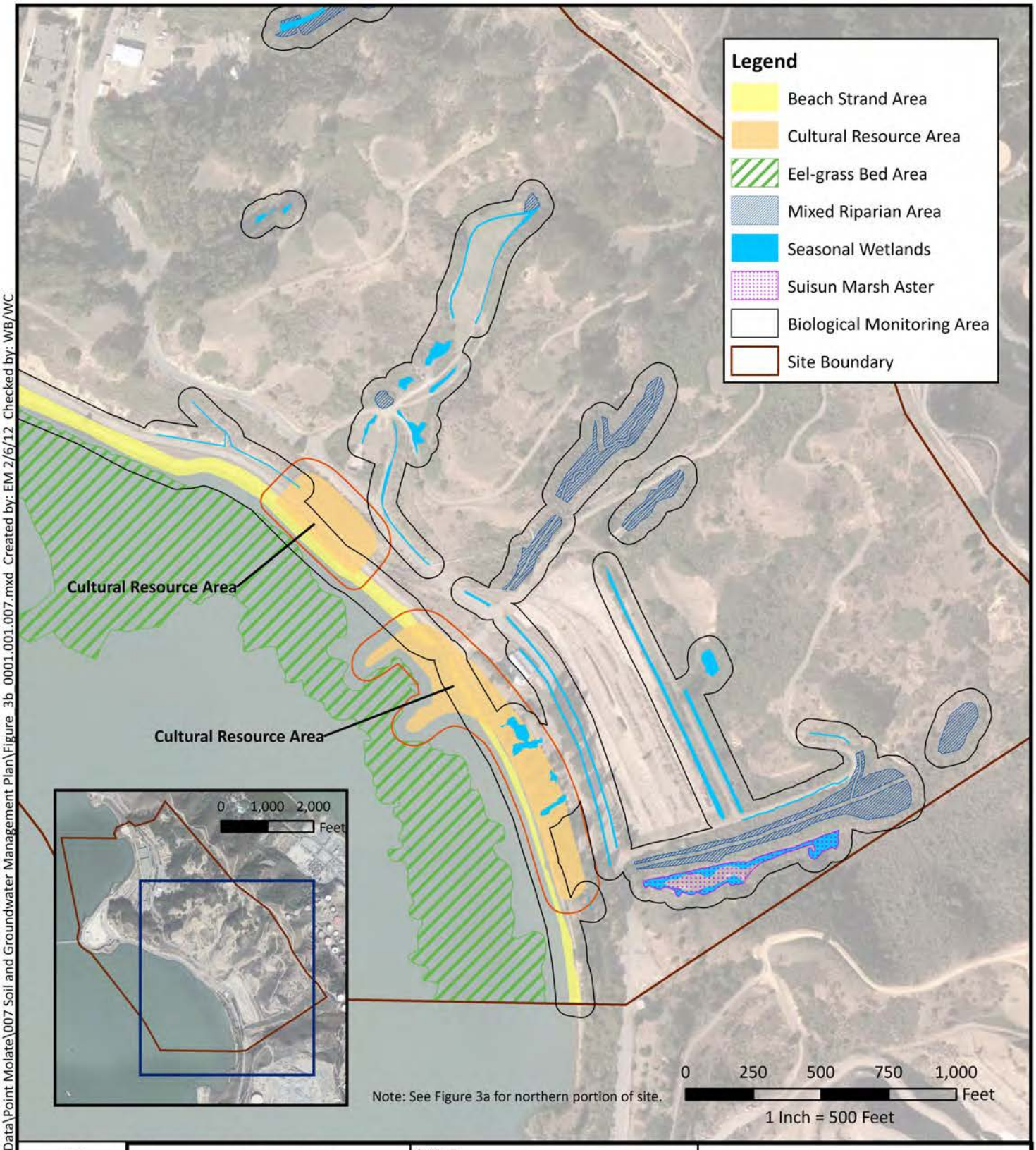


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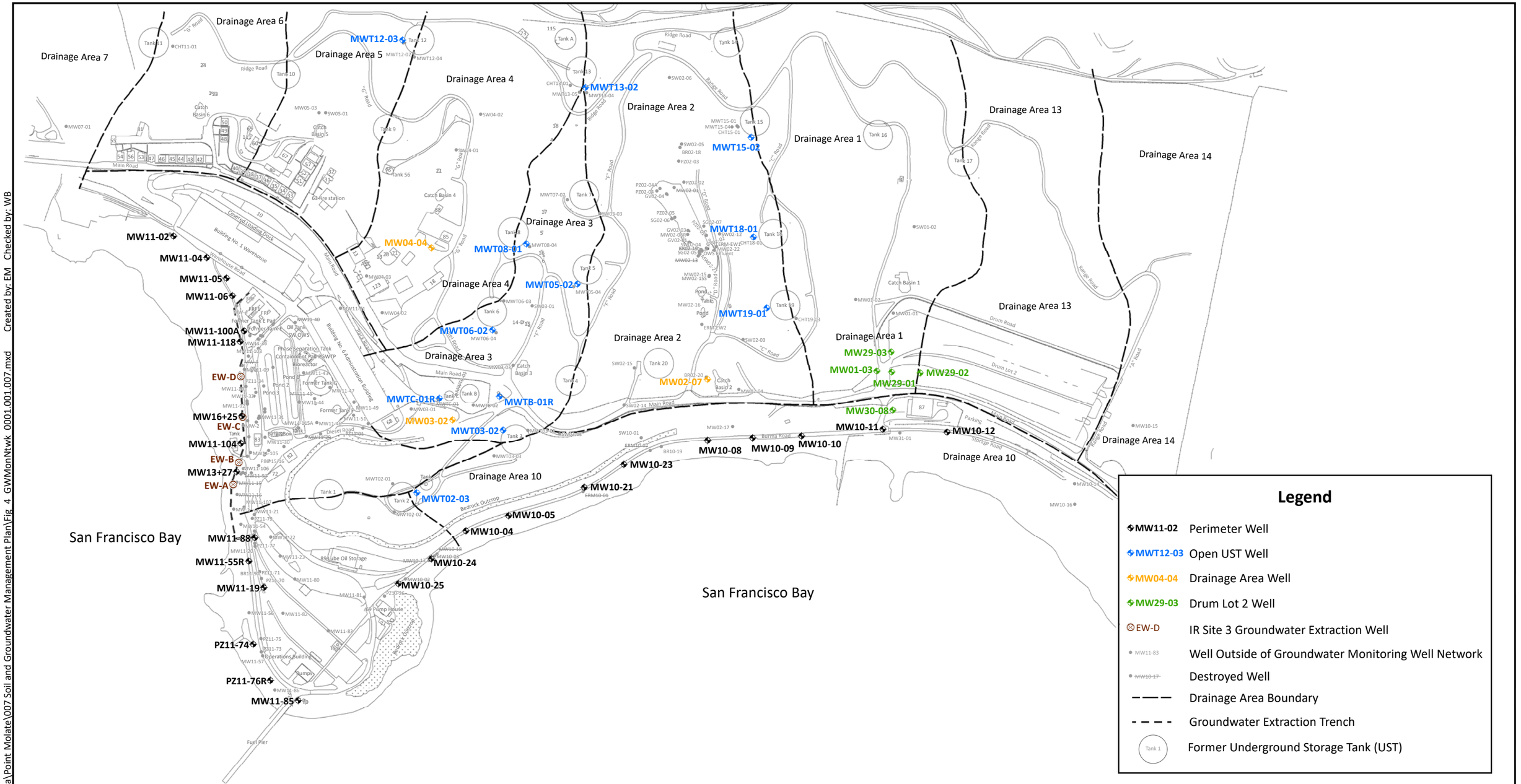
**SAFETY FIRST**

terraphase engineering

| | |
|---|---|
| CLIENT: Upstream Point Molate, LLC | **Biological and Cultural Resource Areas South** |
| PROJECT: Point Molate Soil and Groundwater Managment Plan | |
| PROJECT NUMBER: 0001.001.007 | **FIGURE 3b** |

File: J:\GIS Backup\GIS Data\Point Molate\007 Soil and Groundwater Management Plan\Figure 3b 0001.001.007.mxd Created by: EM 2/6/12 Checked by: WB/WC




## Legend

- MW11-02 — Perimeter Well
- MWT12-03 — Open UST Well
- MW04-04 — Drainage Area Well
- MW29-03 — Drum Lot 2 Well
- EW-D — IR Site 3 Groundwater Extraction Well
- MW11-83 — Well Outside of Groundwater Monitoring Well Network
- ~~MW10-17~~ — Destroyed Well
- Drainage Area Boundary
- Groundwater Extraction Trench
- Tank 1 — Former Underground Storage Tank (UST)

N

0 250 500 750 1,000 Feet

1 Inch = 450 Feet

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CLIENT: Upstream Point Molate, LLC

PROJECT: Point Molate Soil and Groundwater Management Plan

PROJECT NUMBER: 0001.001.007

**Groundwater Monitoring Well Locations**

**FIGURE 4**

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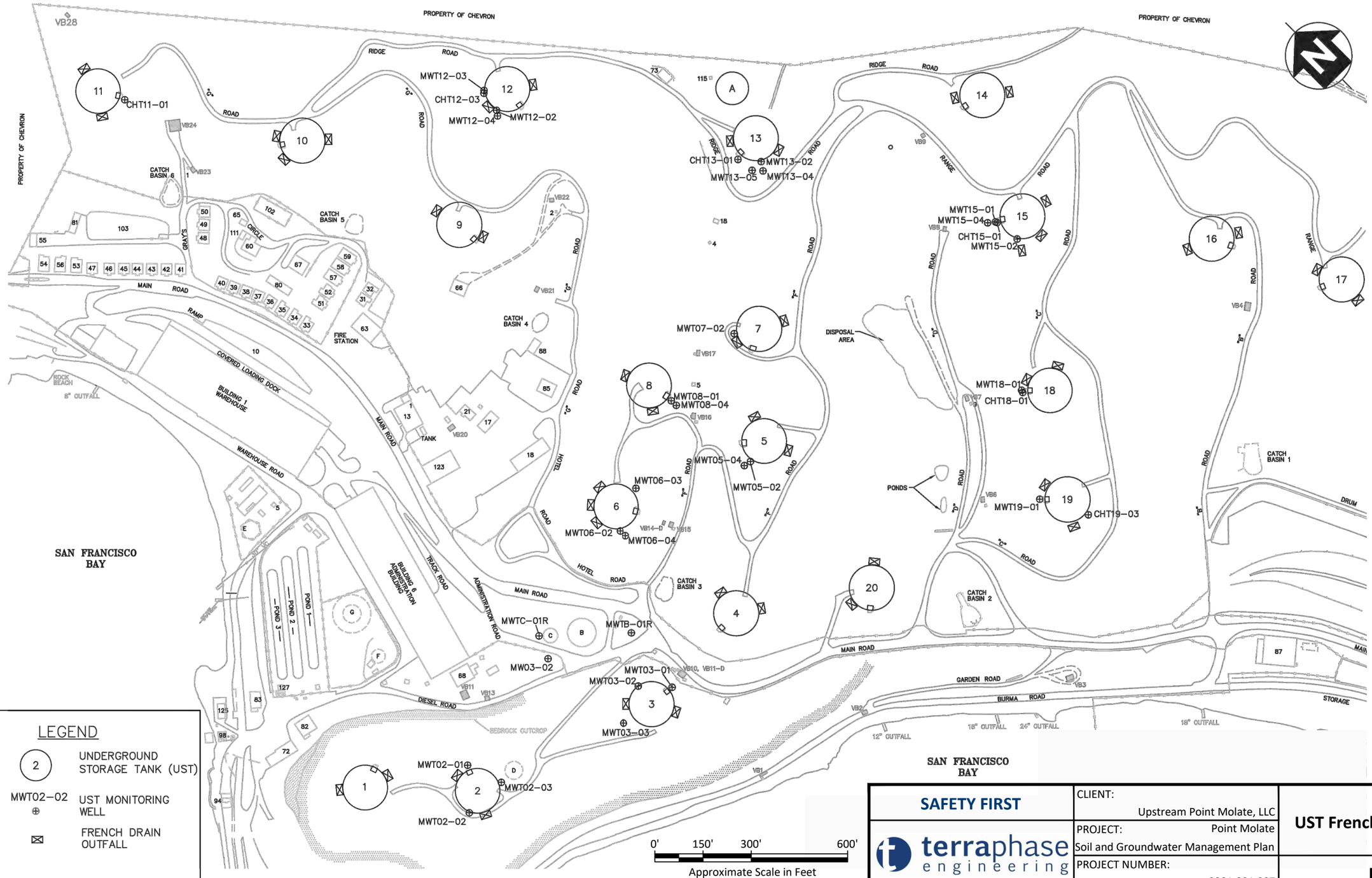


## LEGEND

- 2 — UNDERGROUND STORAGE TANK (UST)
- MWT02–02 ⊕ — UST MONITORING WELL
- ⊠ — FRENCH DRAIN OUTFALL

J:\CADD FILES\0001 Point Molate\UST\UST_Features.dwg Drawn by: KW ; Checked by: WB

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CLIENT: Upstream Point Molate, LLC

PROJECT: Point Molate Soil and Groundwater Management Plan

PROJECT NUMBER: 0001.001.007

# UST French Drain Locations

**Figure 5**

# APPENDIX A

## APPLICABLE MITIGATION MEASURES

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# APPENDIX A
# APPLICABLE MITIGATION MEASURES
# FORMER NAVAL FUEL DEPOT POINT MOLATE
# RICHMOND, CALIFORNIA

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*On Behalf of*

City of Richmond
450 Civic Center Plaza
Richmond, CA 94804

*Prepared for*

Mr. James Levine
Upstream Point Molate
2000 Powell Street, Suite 920
Emeryville, CA 94608

*Prepared by*

Terraphase Engineering Inc.
1404 Franklin Street, Suite 600
Oakland, California 94612

July 20, 2012

Project Number 0001.001.007

terraphase engineering

# CONTENTS


- MM 1-1: Compliance with NPDES Construction General Permit
- MM 2.1f: Development of spill prevention and countermeasures plan, as necessary
- MM 2.1 u: Conservation of top soil
- MM 2-1 v. Disposal of encountered groundwater
- MM 2-2: Preparation of Erosion and Sediment Control Plan
- MM 3-1 through 3-15: Specific dust and erosion control mitigation measures
- MM 4-2 through 4-4: Mixed Riparian area avoidance and setbacks
- MM 4-5 and 4-6: Setbacks from beach strand
- MM 4-7 and 4-8: Tidal wetland and eel grass avoidance
- MM 4-10 through 4-12: Wetland fill avoidance as feasible
- MM-4-13 and 4-14: Suisun Aster Mitigation Area
- MM 4-15 through 4-17: Special status and bird survey and avoidance measures
- MM 4-20 and 4-21: Bat survey and avoidance requirements
- MM 5-1 and 5-2: Cultural resource area protection
- MM 7-1: Soil Disposal Plan
- MM 7-2: Traffic flow notification for impacts to Western Drive
- MM 7-3: Construction Coordination Planning
- MM 9-4: Construction waste recycling
- MM 11-1: Development of Soil and Groundwater Monitoring Plan

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The following text is taken from the *Final Environmental Impact Report Point Molate Mixed-Use Tribal Destination Resort and Casino* prepared by Analytical Environmental Services in February 2011.

1-1 To eliminate potential impacts resulting from excessive erosion and loss of topsoil, the National Pollutant Discharge Elimination System (NPDES) Construction General Permit (General Permit) would be complied with, including implementation of appropriate erosion control measures. Compliance with the General Permit requires developing a site specific Stormwater Pollution Prevention Plan (SWPPP). The SWPPP shall identify the location of temporary erosion control features necessary to direct and filter stormwater runoff during construction activities. Temporary erosion control features used during construction may include, but are not limited to, silt fences, fiber rolls, erosion control blankets, temporary sediment basins, and rock bag dams. The SWPPP shall also include Best Management Practices (BMPs) that would reduce the transportation of pollutants off-site. Compliance with the City's Grading Ordinance, or functional equivalent, would also require a SWPPP. In addition to a SWPPP, the Grading Ordinance requires a grading and drainage study to be developed for each alternative to which an Erosion Control Plan (ECP) would be incorporated. The ECP would have to be approved by the City for construction on fee lands. The ECP would identify permanent erosion control BMPs and permanent project features that would limit erosion and sediment-laden stormwater from leaving the site. The location of permanent erosion control features such as sediment/grease traps, vegetated drainage swales, and riprap shall be identified within the ECP. The ECP would also specify compliance standards, procedural requirements, regulatory compliance requirements, and implementation timeframe requirements. The ECP shall be implemented during the construction.

2-1 In compliance with the Clean Water Act (CWA), a SWPPP shall be prepared that addresses water quality impacts associated with construction, remediation and operation of the project. Water quality control measures identified in the SWPPP shall include, but not be limited to, the following list:

f. A spill prevention and countermeasure plan shall be developed, which identifies proper storage, collection, and disposal measures for potential pollutants (such as fuel, fertilizers, pesticides, etc.) used on-site.

u. Topsoil removed during construction shall be carefully stored and treated as an important resource. Berms shall be placed around topsoil stockpiles to prevent runoff during storm events.

v. Encountered groundwater shall be removed from trenches and excavations in such a manner as to reduce potential contact with construction materials, construction

personnel, and surface waters and shall be disposed of at an appropriately permitted facility such as a wastewater treatment plant (WWTP) in accordance with the requirements of the NPDES permit.

2-2 For project components located on fee lands (as may be the case with the residential component of Alternatives B and B1 and all of Alternative D), the Tribe shall apply for a grading permit from the City for construction activities in compliance with Chapter 12.44 Excavation, Grading and Earthwork Construction of the City of Richmond (City) Municipal Code. Furthermore, the Tribe shall have an Erosion and Sediment Control Plan prepared by a licensed civil engineer for lands that are to remain in fee status.

For trust lands, the Tribe would adopt and implement a Grading Ordinance equivalent to the requirements of the City's grading permit (Chapter 12.44 Excavation, Grading and Earthwork Construction).

Permanent erosion control and stormwater management features shall be consistent with relevant Bay Plan policies including, but not limited to, Policies 1 through 4 detailing design, construction, and long-term maintenance guidance.

3-1 Water all active construction and remediation areas at least three times daily during dry weather.

3-2 Cover all trucks hauling soil, sand, excavated soil from remedial activities, and other loose materials or require all trucks to maintain at least two feet of freeboard.

3-3 Pave or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites.

3-4 Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas at construction sites.

3-5 Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.

3-6 Hydroseed or apply (non-toxic) soil stabilizes to inactive construction areas (previously graded areas inactive for ten days or more).

3-7 Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.).

3-8 Limit traffic speeds on unpaved roads to 15 miles per hour.

3-9 Install sandbags or other erosion control measures to prevent silt runoff to public roadways.

3-10 Replant vegetation in disturbed areas as quickly as possible.

3-11 Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site.

3-12 Install windbreaks, or plant trees/vegetative windbreaks at windward side(s) of construction areas.

3-13 Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 miles per hour.

3-14 Limit the area subject to excavation, grading and other construction activity at any one time.

3-15 Heavy, diesel-powered equipment idling shall be limited to two minutes.

4-2 The on-site, mixed riparian habitat shall be avoided to the maximum extent feasible. Each alternative shall be amended and reconfigured to the maximum extent feasible such that avoidance of the on-site, mixed riparian habitat is accomplished.

4-3 Setbacks at a minimum of 50 feet shall be established (i.e., staked) around all areas of mixed riparian habitat unless the soils, slope, hydrology, vegetation and runoff potential of adjacent construction areas dictate that a greater buffer distance is required. Prior to the onset of development activities, high visibility fencing shall be installed to delineate the riparian setbacks. A qualified biologist shall be present during development activities that ensue within the vicinity of the fenced riparian setbacks. The qualified biologist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate these avoidance buffers. Future development shall not occur within the riparian setbacks once established.

4-4 The footprints of Alternatives B, D, and B1 include potential impacts to mixed riparian habitat. Alternatives B, D, and B1 shall be reconfigured to avoid and/or reduce this impact. If complete avoidance of mixed riparian habitat is not feasible and/or the project design cannot be reconfigured to avoid the mixed riparian habitat areas on-site, a Lake or Streambed Alteration Agreement (Fish & Game Code Section 1600 et seq.) shall be obtained from the California Department of Fish and Game (CDFG) and habitat replacement ratios defined within the permit conditions shall be implemented for development on fee lands. Typical section 1600-permit mitigation occurs at a 3:1 ratio (acres created versus impacted), though individual permit conditions may vary.

4-5 The beach strand habitat on-site shall be completely avoided to the maximum extent feasible. Replacement/restoration is not appropriate for this habitat type due to its inherent intrinsic value, role as habitat for plant and wildlife species (including special-status species), increasing threats by development, and its currently limited distribution within the region. Under the current project description, total avoidance of beach strand habitat is accomplished. To assure avoidance and avoid impacts to the beach strand habitat on-site (and Bay Conservation and Development Commission [BCDC] jurisdictional areas), the existing roadways shall be used to

the degree feasible. Improvement of the existing roadways may be implemented as necessary, but no new roadways shall be built in the vicinity of the beach strand habitat on-site.

4-6 Setbacks shall be established (i.e., staked) around all areas of beach strand habitat within the footprint and vicinity of project development. Setback distances for areas of beach strand habitats shall be approved through consultation with BCDC taking into account the soils, slope, hydrology, vegetative cover and runoff potential of areas adjacent to beach strand habitat where construction will occur. Prior to the onset of development activities, high visibility fencing shall be installed to delineate the beach strand setbacks. A qualified biologist shall be present during any and all development activities that ensue within the vicinity of the fenced beach strand setbacks. A qualified biologist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate these setback buffers. If complete avoidance is not feasible, consultation with BCDC would need to be initiated. Any impacts to beach strand habitat would require explicit approval by BCDC and conditions for such impacts would be specified within a permit, if applicable.

4-7 The tidal marsh habitat on-site shall be completely avoided. While the final amount of setback will be determined by the jurisdictional agency, a minimum setback of 50 feet is recommended around the tidal marsh habitat on-site as a means of preventing any impacts to it from development. The 50-foot setback buffer shall be approved by the BCDC through consultation taking into account the soils, slope, hydrology, vegetative cover and runoff potential of areas adjacent to beach strand habitat where construction will occur. The exact width of the tidal marsh setback shall likely be a specified condition of the BCDC permit(s). The location of the Bay Trail in each of the alternatives should be amended and reconfigured, if necessary, such that the minimum 50-foot tidal marsh setback is accommodated and maintained. Prior to the onset of development activities, high visibility fencing shall be installed to delineate the tidal marsh setback. A qualified biologist shall be present during any and all development activities that ensue within the vicinity of the fenced tidal marsh setback. The qualified biologist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate this setback buffer.

4-8 The eelgrass bed habitat on-site shall be completely avoided during construction and operation of the Proposed Project. Specifically, ferries servicing the retrofitted pier shall not come within 1,000 feet of the eel grass bed habitat. Based on the current project description, total avoidance of eelgrass bed habitat is accomplished because only the existing pier shall be utilized and the total surface area of the pier shall not be increased. Improvement of the existing pier may be implemented as necessary, but no new piers and/or structures shall be built in the vicinity of the eelgrass bed habitat on-site. All activities associated with the pier reuse shall be approved by the BCDC through consultation, and specific parameters associated with the pier reuse will likely be specified conditions of the BCDC permit(s). Aggregate materials scheduled for processing on-site would be transferred from designated crushing locations to barges docked at the end of the pier using a conveyor belt system. Sufficient dust control of crushed materials would be achieved

prior to transport along the conveyor system using approved dust control BMPs. To reassure that all material transported along the conveyor has a low risk of being discharged into the Bay by wind erosion or any other causes, complete enclosure of the conveyor belt system will prohibit any loose aggregate, soils or dust from entering the Bay during these transport operations. All ferry and barge routes will be limited to the deepwater shipping channel when not moored at the pier and velocities shall be reduced as ferries approach the pier to reduce waking. Ferry and barge speeds shall be limited to 10 knots or less within 750 feet of the pier. In addition, ferry traffic will not route from the terminal landward towards the shoreline and the mooring of private boats would not be allowed on the pier. Appropriate signage and/or a buoy system will be implemented to properly inform marine traffic of the sensitive eelgrass habitats and to help keep any misguided vessels away from these habitats. To assess the impacts of the ferry service on eelgrass on and directly adjacent to the project area, eelgrass surveys will be conducted for the project site immediately prior to and annually for three years following the implementation of the proposed ferry service, as recommended in a letter by NMFS dated September 15, 2010 and required by the BIA in a letter dated October 4, 2010 (Appendix FF). The surveys shall be done in accordance with a NMFS approved monitoring plan; the monitoring plan (including the location of a control site) shall be submitted to the NMFS prior to construction. Surveys of eelgrass distribution and density in both the project area and at a suitable control site shall be performed during the eelgrass growing season. Results of the pre- and post- ferry service surveys shall be provided to NMFS Santa Rosa office staff within 60 days of completion. If NMFS determines the project actions have adversely impacted eelgrass in or adjacent to the project area based on pre- and post- work distribution and density surveys, the BIA shall provide NMFS with an eelgrass mitigation plan within 60 days of completion of the final post-ferry survey. The mitigation plan shall include success criteria that are approved by the NMFS.

4-10 The proposed development shall avoid filling of wetlands and other waters of the U.S. to prevent impacts to these features entirely, if feasible. Each alternative shall be amended and reconfigured, if necessary, such that avoidance of wetlands and/or waters of the U.S. is accomplished to the maximum extent feasible. Setbacks of 50 feet shall be established around each of the wetland features within the vicinity of project development, unless the soils, slope, hydrology, vegetation and runoff potential depict that a greater buffer distance is required. Setbacks would consist of the installation of high visibility fencing prior to the onset of any development activities. A qualified biologist shall be present during any and all construction activities that ensue within the vicinity of the wetland/other waters avoidance buffer zones. The qualified biologist shall act as a construction monitor to make sure the fencing remains intact and that construction activities do not penetrate the wetland avoidance buffer areas.

4-11 If complete avoidance of wetlands and other waters of the U.S. is not possible and impacts to these features cannot be avoided, authorization from the U.S. Army Corps of Engineers (USACE) is required. A Section 404 CWA permit shall be obtained from the USACE and wetland/other waters replacement ratios defined within the permit conditions shall be implemented. Typical

404-permit mitigation occurs at a ratio of 1:1 acres created versus impacted and 2:1 acres restored versus impacted, though individual permit conditions may vary. A CWA Section 401 water quality certification permit from the U.S. Environmental Protection Agency (USEPA) is also required. In addition, a Lake or Streambed Alteration Agreement (1600-permit) from the CDFG is required for impacts to streams, lakes, and riparian habitats on fee lands. Typical 1600-permit mitigation occurs at a 3:1 ratio of acres created versus impacted, though individual permit conditions may vary.

4-12 Wetland mitigation shall be accomplished through the creation of seasonal wetlands within open space preserves, which shall be established on-site at agency-approved locations. Ephemeral drainage mitigation shall be accomplished through the restoration of existing on-site streams, which were previously channeled (i.e., piped) underground as part of prior site developments. A detailed mitigation and monitoring plan shall be designed that includes all the necessary details regarding the location and size of the proposed wetlands/ephemeral drainages and open space preserves, monitoring stipulations, reporting requirements, responsibilities, and performance success criteria. The mitigation and monitoring plan shall meet the stipulated requirements of and be written in accordance with the 401, 404, and 1600 permits, if applicable.

4-13 Alternatives B, D, and B1 shall avoid the on-site population of Suisun Marsh aster to prevent impacts to this special-status plant, if feasible. If feasible, these alternatives shall be amended and reconfigured such that avoidance of the Suisun Marsh aster population and its habitat on-site is accomplished. Setbacks of 50 feet shall be established around the total area where the population occurs via high visibility fencing prior to the onset of development activities. A qualified botanist shall be present during any and all construction activities that ensue within the vicinity of the Suisun Marsh aster setback. The qualified botanist shall act as a construction monitor to ensure the fencing remains intact and that construction activities do not penetrate this setback.

4-14 If complete avoidance of the Suisun Marsh aster population cannot be reasonably achieved, and impacts to this species are unavoidable, consultation shall be initiated with the CDFG (for Alternatives B, D, and B1). Upon CDFG approval, the impacted individual plants shall be transplanted out of their existing locations and into an equivalent and suitable wetland feature(s) that occurs within an established on-site open space preserve. A qualified botanist shall determine the exact transplanting locations and shall supervise all of the transplanting activities. Transplanting activities shall occur during the fall months, prior to the onset of heavy rains and inundation of seasonal wetland features to minimize transplant stress to the plants and assure transplant success. Transplanting activities shall not occur in the spring, summer, or winter months, unless prior approval from the CDFG is obtained.

4-15 Special-status and/or migratory bird and raptor species have potential to nest within the project site. Generally, the nesting season extends from February through September with peak activity taking place from March through June. If any construction activities (e.g., tree and/or vegetation

removal, grading) are scheduled to occur during the nesting season, pre-construction bird surveys shall be conducted. Pre-construction surveys for any nesting bird species shall be conducted by a qualified wildlife biologist throughout all regions of the site and vicinity, which are within 500 feet of any proposed construction activity (including thorough coverage of the pier). The surveys shall occur no more than 14 days prior to the scheduled onset of construction activities. If construction is delayed or halted for more than 14 days, another pre-construction survey for nesting bird species shall be conducted. If no nesting birds are detected during the preconstruction surveys no additional surveys are required.

4-16 If special-status nesting bird species are observed within 500 feet of construction areas during the surveys, consultation shall be initiated with the CDFG and/or the USFWS. Through consultation, an appropriate course of action, acceptable setbacks, and a suitable monitoring plan shall be determined. If non-special-status nesting birds are observed during the surveys, an appropriate setback shall be determined based on the species, the location of the nest(s), and other pertinent biological attributes. Avoidance setbacks shall be established around all active nest locations via stakes and high visibility fencing. Typical setbacks are 250 feet for bird species and 500 feet for raptor species. The nesting bird setbacks shall be completely avoided during the duration of construction activities and the fencing must remain intact. The fencing may be removed when a qualified wildlife biologist confirms that the nest(s) is no longer occupied and all fledglings have left.

4-17 If impacts (i.e., take) to federal or state threatened or endangered bird species are unavoidable, an incidental take permit from the USFWS/CDFG would be required. Take is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, or collect any threatened or endangered bird species. Harm may also include significant habitat modification.

4-20 A qualified wildlife biologist shall conduct pre-construction surveys within all potentially suitable bat habitats (i.e., buildings which would be modified or demolished, the pier, and the eucalyptus woodland) that occur within the site and vicinity of any proposed construction activities. If no bats and/or evidence of bats (i.e., guano) are detected during the pre-construction surveys, no additional surveys are required.

4-21 If bats and/or evidence of bats are detected during the pre-construction surveys, a qualified bat biologist (i.e., specialist) shall facilitate bat evacuation and removal. This typically entails the installation of exclusionary (e.g., mist) nets around occupied habitats while the bats are away from their roosts. The netted habitats shall be monitored frequently at appropriate times and intervals to assure that all the bats have left the roosts and that no bats re-enter during the entire duration of all development activities. The qualified bat biologist shall determine the specific logistics and details regarding bat removal within the larger historic buildings on-site, after he or she has fully assessed the site. When construction activities are completed, the exclusionary nets shall be removed.

5-1 A Programmatic Agreement (PA) shall be developed that addresses impacts from construction of the project and that provides for long-term treatment and maintenance of cultural resources located within the project site. The PA shall be developed cooperatively by the City of Richmond, State Historic Preservation Office (SHPO), Tribe, Bureau of Indian Affairs (BIA), and other invited signatories. The agreement shall specify the means by which the significant impacts resulting from the project would be eliminated or reduced. The agreement would apply to the known cultural resource areas within the project site.

All project components to be constructed in proximity to the cultural resource areas shall be sited in a manner so as to avoid any construction or operational impacts to the resource. The cultural resource areas shall be avoided by all ground disturbing activity. Construction monitoring by a qualified archaeologist during construction work involving ground disturbance in the vicinity of the cultural resource areas. The cultural resource areas should be afforded long-term protection via capping, fencing, or other means to prevent unauthorized or inadvertent intrusion.

5-2 In the event that any prehistoric, historic, or paleontological resources are discovered during construction related earth-moving activities, all work within 50 feet of the resources shall be halted and a qualified archaeologist or paleontologist, as appropriate, shall be consulted to assess the significance of the find. If any find is determined to be significant by the qualified professional, then appropriate agency and project representatives and the qualified archaeologist and/or paleontologist shall meet to determine the appropriate course of action. All significant cultural or paleontological materials recovered shall be subject to scientific analysis, professional museum curation, and a report prepared by the qualified archaeologist or paleontologist according to current professional standards.

If human bone or bone of unknown origin is found during construction, all work shall stop within 50 feet of the find and the Contra Costa County Coroner and the Tribe shall be contacted immediately. If the discovery of human remains is made on federal trust land, the BIA archaeologist shall be contacted immediately. If the remains are determined to be Native American, the coroner shall notify the Native American Heritage Commission (NAHC) who shall identify the most likely descendant. The most likely descendant shall work with the Tribe and/or BIA, as appropriate, to develop a plan for re-interment of the human remains and any associated artifacts. No additional work shall take place within the immediate vicinity of the find until the identified actions have been implemented.

7-1 The Tribe shall provide the City of Richmond (City) and Contra Costa County with a Soil Disposal Plan one month prior the beginning of construction. for Alternatives A, B, C, D and B1. The Soil Disposal Plan shall include, but not be limited to, the following:

- Soil haul truck routes
- Soil disposal sites
- Barge route

- Traffic safety mitigation
- Road and right-of-way deterioration restoration funding
- Limits on times haul trucks and barges can operate.
- A two week notice shall be given to residents of the San Pablo Peninsula regarding any temporary blockage on Western Drive.
- The Tribe shall determine alternate construction and operational access routes during times of roadway construction in the vicinity of the project site.

7-2 The Tribe shall coordinate all construction activities that would affect traffic flow on Western Drive with local emergency service providers at least one month in advance of construction. Emergency service providers shall be notified of the timing, location, and duration of construction activities. All roads shall remain passable to emergency service vehicles at all times. Western Drive shall remain passable to through traffic 24 hours a day, seven days a week to provide access to and from other land uses located on the San Pablo Peninsula. In the event that portions of Western Drive must be closed temporarily, reasonable detours shall be provided such that access to the San Pablo Yacht Harbor and other adjacent land uses is not restricted. This mitigation measure applies to Alternatives A, B, C, D, and B1.

7-3 The Tribe shall develop and provide the City and the California Department of Transportation with a Construction Coordination Plan one month prior the beginning of construction. Elements of the plan would include, but would not be limited to: routes, hours of operation, and sequencing. This mitigation measure applies to Alternatives A, B, C, D, and B1.

9-4 Construction waste shall be recycled to the fullest extent practicable by diverting green waste and recyclable building materials from the solid waste stream. To the extent feasible, existing asphalt and concrete shall be processed and reused on-site. To the extent practical, environmentally preferable materials shall be used in construction.

11-1 To protect construction personnel from potential exposure to undiscovered hazardous materials, a site-specific hazardous materials inadvertent discovery plan (Plan) or an equivalent soil and groundwater management plan (SMP) that addresses inadvertent discovery of hazardous materials, shall be developed for the project prior to any grading or ground disturbing activities. The Plan shall define protocols to be implemented if suspected contamination is found during mass grading and excavation activities associated with site development. These protocols shall include identification of how soils and affected groundwater are to be managed and requiring hourly field measurements within active excavation areas during hillside UST excavation. Hourly field measurements shall also be required within active soil stockpile areas and confined spaces. The Plan shall be implemented by a professional engineer registered in the State of California and shall include hourly field measurements for undiscovered contaminants using a photo ionization detector (PID) for measuring volatile organic compounds (VOCs), confined space monitor (oxygen, carbon monoxide, hydrogen sulfide, and, lower explosive limit), and any other monitor deemed appropriate by the registered engineer. If deemed

necessary by the engineer, soil samples shall be collected and analyzed for petroleum hydrocarbons in areas of suspected contamination. If suspected contamination is found during construction activities, all work shall stop in the immediate area and a safe zone for construction personnel shall be established. The extent of contamination shall be assessed to determine whether there is a significant health risk to construction personnel working on-site. The SMP would also include construction personnel safety protocols according to Occupational Safety and Health Administration (OSHA) guidelines to be implemented as part of the SMP. The Tribe shall ensure through contractual obligations that OSHA guidelines are followed during construction activity and any potential removal of affected soils.

*Construction and Remediation*

The following mitigation measures should be included as part of a site specific Stormwater Pollution Prevention Plan (SWPPP) to reduce the potential for hazardous materials releases during construction and remediation of Alternatives A, B, C, D, and B1:

a. Any hazardous materials or fuels that would be stored temporarily for project construction and remediation shall be properly containerized to minimize the potential for release.
b. The Tribe shall ensure, through the enforcement of contractual obligations, that all contractors prepare hazardous materials business plans and that they transport, store, and handle construction and remediation-related hazardous materials in a manner consistent with applicable regulations and guidelines. Recommendations may include, but are not limited to, transporting and storing materials in appropriate and approved containers, maintaining required clearances, and handling materials in accordance with the applicable federal, state, and/or local regulatory agency protocols.
c. In compliance with the Clean Water Act (CWA), a SWPPP shall be prepared for that addresses hazardous materials impacts associated with construction, remediation, and operation of the project. Hazardous materials control measures identified in the SWPPP shall include, but not be limited to, the following:
    - A spill prevention and countermeasure plan shall be developed, which identifies proper storage, collection, and disposal measures for potential pollutants (such as fuel, fertilizers, pesticides, etc.) used on-site.
    - Petroleum products shall be stored, handled, used, and disposed of properly in accordance with provisions of the Clean Water Act (33 USC § 1251 to 1387).
    - During the wet season, construction materials, including topsoil and chemicals, and quarried materials transported by barge (regardless of the season) shall be stored, covered, and isolated to prevent runoff losses and contamination of surface and groundwater.
    - Fuel and vehicle maintenance areas shall be established away from all drainage courses and designed to control runoff.
    - Sanitary facilities shall be provided for construction workers.

- Disposal facilities shall be provided for soil wastes, including excess asphalt during construction and demolition.
- The Tribe shall require all workers be trained in the proper handling, use, cleanup, and disposal of all chemical materials used during and provide appropriate facilities to store and isolate contaminants.
- Encountered groundwater shall be removed from trenches and excavations in such a manner as to reduce potential contact with construction materials, construction personnel, surface waters, and , to the extent required by regulation or requirements, shall be disposed of at an appropriately permitted facility such as a WWTP in accordance with the requirements of the NPDES permit.

*Operation*

The following mitigation measures would reduce the potential for hazardous materials releases during operation of Alternatives A, B, C, D, E, and B1:

a. Landscaping chemicals such as pesticides, herbicides, and fertilizers would consistently be kept at the lowest volumes needed and in the least toxic amounts. Such products shall be applied in a manner that prevents contact with groundwater, streams, domestic water supply, or wetlands. This shall be achieved in conjunction with mitigation providing for the planting of native vegetation that requires less, or no, pesticides or herbicides.

# APPENDIX B

CHEMICAL HAZARDS

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# APPENDIX B
# CHEMICAL HAZARDS
# FORMER NAVAL FUEL DEPOT POINT MOLATE
# RICHMOND, CALIFORNIA

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*On Behalf of*

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*Prepared for*

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**2.0 CHEMICAL HAZARDS ..... 2**

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1 Toxicological Properties of Chemical Compounds Found at the Site

## Acronyms and Abbreviations

| | |
|---|---|
| BTEX | Benzene, ethylbenzene, toluene, and total xylenes |
| HASP | Health and Safety Plan |
| LEL | lower explosive limit |
| NFD | Naval Fuel Depot |
| PPE | personal protective equipment |
| PAHs | polycyclic aromatic hydrocarbons |
| TPH | total petroleum hydrocarbons |
| VOC | volatile organic compound |

# 1.0 INTRODUCTION

This document, *Chemical Hazards* was prepared by to provide guidelines for the preparation of Health and Safety Plans (HASPs) for future construction/demolition work at the Former Naval Fuel Depot Point Molate (NFD Point Molate, the "Site") regarding the chemical hazards associated with the expected contamination at the Site. A HASP will be required for activities that may disturb soil or produce groundwater at the Site. Each HASP must address all potential hazards related to the planned activities. The sections below describe a subset of potential work site hazards, specifically related to chemical and environmental hazards at the Site. Additional information will be required for a HASP or HASPs to provide sufficient guidance to ensure worker safety.

# 2.0 CHEMICAL HAZARDS

Chemical hazards may be encountered during the field activities to be conducted at NFD Point Molate. These hazards may be encountered through inhalation, absorption, or ingestion. The primary contaminants of concern are volatile organic compounds (VOCs) (e.g. benzene, ethyl benzene, toluene, total xylenes [BTEX]), polycyclic aromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH). The toxicological properties of these chemicals are described in Table 1 below. Risk of exposure through absorption and ingestion is minimized by proper personal hygiene and use of personal protective equipment (PPE).

Inhalation of the contaminants of concern is possible when disturbing the subsurface (e.g. soil excavations, trenching and stockpiling). During periods of field activities when the subsurface is disturbed and contaminated soil is encountered, air monitoring of the work environment should be conducted. A photoionization detector (PID) should be used. In the event that the PID has a reading of greater than 10 parts per million (ppm), work will stop, the project manager will be notified, and Level C PPE will be used.

During some field activities (e.g. excavation of soils) a multiple-parameter meter will be used to screen for the presence of flammable vapors, oxygen-deficient or oxygen-enriched atmosphere, and hydrogen sulfide gas. If flammable vapors are at the 10 percent lower explosive limit (LEL) or greater, work will stop and the area will be vented. If the oxygen content is below 20.8 percent or greater than 22 percent, field personnel will immediately vacate the area and the area will be ventilated. If hydrogen sulfide gas is encountered at concentrations greater than 5 ppm, stop work, vent the area, and notify the project manager.

A splash hazard may exist during dewatering activities. If dewatering of contaminated waters is conducted, proper PPE (e.g. Tyvek suits and eye protection) should be utilized in situations that contaminated groundwater can splash or spray on field personnel. During opening of valves, sample ports, and when pressurizing and de-pressurizing pipes and lines, care should be exhibited to prevent water from contacting the face and body. During repairs of pipes, pumps, etc., a Tyvek suit may be worn to prevent skin contact with contaminated groundwater and other fluids (e.g. free-phase fuel products).

**Table 1**

**Toxicological Properties of Chemical Compounds Found at the Site**

Former NFD Point Molate

Richmond, California

| Class/Compounds | Principal Routes of Entry | Acute Exposure Effects/Symptoms | Chronic Exposure Effects/Symptoms |
|---|---|---|---|
| **Organic Compounds** | | | |
| Benzene | Inhalation, Ingestion, Skin | Central nervous system (CNS) depression; skin, eyes and upper respiratory tract irritation | Carcinogen, blood change leukemogenic |
| Ethylbenzene | Inhalation, Ingestion, Skin | Skin, eyes, nose and throat irritation | Skin rash |
| Toluene | Inhalation, Ingestion, Skin | CNS depression; skin, eyes, and respiratory tract irritation | Dermatitis |
| Xylene | Inhalation, Ingestion, Skin | Dizziness; nose, throat, skin, and eye irritation; olfactory changes; irritant; poison; distortion; hallucination; CNS effects | Cardiac arrhythmia |
| **Petroleum Distillates** | | | |
| Gasoline, Diesel, Bunker Fuel | Inhalation, Ingestion, Skin | Anesthesia, dizziness, headache, nausea, vomiting, sleepiness, fatigue, disorientation, depression, unconsciousness, respiratory tract irritation, sore throat, cough | Dermatitis, headache, mood shifts, CNS effects, fatigue |
| **Semi-Volatile Organic Compounds** | | | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | Inhalation, Ingestion, Skin | Irritant to skin, vomiting, photosensitization, headache | As a class overall, can be considered mutagenic and tumorigenic with several compounds known carcinogens; also causes liver damage |

# APPENDIX C

CONTRACTOR ACCEPTANCE FORM

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# Soil and Groundwater Management Plan Review and Acceptance Form

All personnel working on the site must read and understand the Soil and Groundwater Management Plan. By signing below, you confirm that you have read, understand, and agree to abide by the Soil and Groundwater Management Plan.

| Name | Company | Date |
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# APPENDIX D

## SAMPLING AND ANALYSIS PLAN

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# APPENDIX D
# SAMPLING AND ANALYSIS PLAN
# FORMER NAVAL FUEL DEPOT POINT MOLATE
# RICHMOND, CALIFORNIA

---

*On Behalf of*

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*Prepared for*

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1 Example Chain of Custody Form

## Acronyms and Abbreviations

| | |
|---|---|
| °C | degrees Centigrade |
| °F | degrees Fahrenheit |
| ACM | asbestos-containing material |
| AHERA | Asbestos Hazard Emergency Response Act |
| AIHA | American Industrial Hygiene Association |
| BOD | biological oxygen demand |
| BTEX | benzene, toluene, ethylbenzene, xylenes |
| CAC | California Certified Asbestos Consultant |
| CGI | combustible gas indicator |
| COC | contaminant of concern |
| COD | chemical oxygen demand |
| CSST | Certified Site Surveillance Technician |
| DHS | California Department of Health Services |
| EPA | U.S. Environmental Protection Agency |
| eV | electron volts |
| FAAS | flame atomic absorption spectroscopy |
| FID | flame ionization detector |
| HASP | Health and Safety Plan |
| HEPA | high-efficiency particulate air |
| LBP | lead-based paint |
| LEL | lower explosive limit |
| mL | milliliters |
| mph | miles per hour |
| MTBE | methyl-tert-butyl-ether |
| NESHAP | National Emission Standards for Hazardous Air Pollutants |
| NFD | Naval Fuel Depot |
| OSHA | Occupational Safety and Health Administration |
| PAHs | polynuclear aromatic hydrocarbons |
| PDR | Personal Data Ram |
| PID | photo ionization detector |
| PIP | photo ionization potential |
| PLM | polarized light microscopy |
| ppm | parts per million |
| QC | quality control |
| RWQCB | San Francisco Regional Water Quality Control Board |
| SAP | Sampling and Analysis Plan |
| sf | square feet |
| SGWMP | Soil and Groundwater Management Plan |
| STLC | Soluble Threshold Limit Test |

| | |
|---|---|
| TCLP | Toxicity Characteristic Leaching Potential |
| TDS | total dissolved solids |
| TOC | total organic carbon |
| TS | total solids |
| TSS | total suspended solids |
| TEM | Transmission Election Microscopy |
| TPH | Total Petroleum Hydrocarbons |
| VOC | Volatile Organic Compound |
| WET | Waste Extraction Test |

# 1.0 INTRODUCTION

## 1.1 Purpose and Scope

This Sampling and Analysis Plan (SAP) has been prepared to present the sampling and analytical procedures that should be followed for sampling of soils, liquids, and other materials encountered during emergency and non-emergency remediation and development activities at the former Naval Fuel Depot (NFD) Point Molate in Richmond, California (the Site). The procedures in the SAP should be followed to ensure that data collected during remedial and development activities at the Former NFD Point Molate are of the appropriate quality to facilitate the proper selection of material handling and/or disposal methods, and to promote safe site work practices, including the selection of proper personal protection equipment, as necessary. Procedures for sample collection, handling and storage, chain-of-custody, laboratory analyses, and data handling are presented herein. This SAP is intended for use as an appendix to the Soil and Groundwater Management Plan (SGWMP). Further quality control procedures documented in Appendix G (Quality Control Plan) of the SGWMP should be followed in evaluating the data collected from these sampling approaches.

# 2.0 SAMPLING PROCEDURES

Sampling procedures are presented for the following media and settings which may be required in association with site construction activities:

- Soil: excavation confirmation sampling
- Soil: stockpile sampling for on-site reuse
- Soil: waste characterization for off-site disposal
- Building materials
- Groundwater
- Liquid waste
- Air
- Buried drums and tanks

If additional media and/or settings are encountered, an addendum or addenda to this SAP will need to be prepared and approved by the San Francisco Regional Water Quality Control Board (RWQCB) prior to implementation.

## 2.1 Equipment Decontamination

Sampling equipment must be decontaminated prior to use. To prevent potential for cross-contamination between samples, all non-disposable sampling equipment that comes into contact with the soil, demolition debris, or groundwater will be decontaminated prior to initiating work at each subsequent sampling location. Non-disposable equipment will be decontaminated using a three-step process: (1) non-phosphate detergent wash, (2) potable water rinse, and (3) distilled water rinse. Disposable equipment will be discarded after each sample location.

## 2.2 Soil Sampling

### 2.2.1 Excavation Sampling

Potentially contaminated soil (either unanticipated or in areas of the Site that have received regulatory closure) will require sampling and analysis. The number and location of soil samples to be collected will depend on the conditions encountered in the field. A regular sampling grid should be established for the excavation floor and sidewalls, unless field observations indicate the potential presence of hot spots in an excavation (e.g., areas of staining). One excavation floor confirmation soil sample should be obtained for each 50 by 50 square feet (sf) grid, or part thereof. For the excavation sidewalls, one soil sample should be collected every 50 horizontal feet of sidewall and every 10 feet of vertical excavation, or part thereof. If there is no visual indication of contamination within the sampling grid, a discrete sample should be collected from the approximate center of the grid. If there is visual indication of contamination within the sampling grid, a discrete sample should be biased to the location that indicates the worst potential impact.

Samples will be collected using appropriate equipment (e.g., decontaminated or disposable spoon or trowel, split-spoon sampler or a push tube). Samples for volatile components will be collected using a TerraCore™ sampler or equivalent equipment, as described below. Samples to be analyzed for volatile components will be collected first. If entry into an excavation is considered unsafe, samples may be collected from an excavation bucket. In general, the steps described below summarize the sampling procedures to be followed at each location.

1. Obtain sampling jars. Each sample to be analyzed for volatile components will be collected using one 5-gram TerraCore™ kit. For non-volatile components, samples will be collected in pre-cleaned, 8-ounce, wide-mouthed glass jars.

2. Put on a new, clean, and chemical-resistant pair of disposable gloves.

3. Remove approximately 2-inches of disturbed soil from the surface of the area prior to collecting the sample.

4. Samples to be analyzed for volatile components will be collected first. Using a TerraCore™ sampler, three 5-gram plugs of soil will be collected for each sampling location. The soil plugs will be immediately placed into vials. Two of the vials will contain 5 milliliters (mL) of deionized water and a stir bar, and one vial will contain 5 mL of methanol. The vials will be placed on water ice and cooled to 4 degrees Centigrade (°C). The lab must receive the vials within 48 hours to freeze the water vials, thereby extending the hold time to 14 days.

5. Samples for non-volatile components should be collected using appropriate equipment (e.g., decontaminated or disposable spoon or trowel). The soil should completely fill the pre-cleaned 8-ounce jar. The number of glass jars required at each sample location will depend on the analyses required (see Section 3.0). In general, a minimum of two, laboratory-supplied, 8-ounce glass jars of soil will be collected at each sampling location.

6. Seal or cap the sample containers and affix sample labels to the containers. Sample labels should contain the information described in Section 4.1.

7. Place signed and dated custody seals over the containers and place the containers in resealable bags. Label the resealable bags in the same way as the sample containers. Immediately place the resealable bag containing the sample jars into a cooler filled with ice to maintain a temperature of 4 °C.

8. Record the sample number, date, time, and description of the sample on the chain-of-custody form (described in greater detail in Section 4.2).

9. Arrangements should be made to have the samples picked up by or dropped-off at the analytical testing laboratory or samples should be packaged and shipped in accordance with the procedures described in Section 4.3.

### 2.2.2 Stockpile Sampling for On-Site Reuse

The procedures described below are to be followed for sampling a stockpile when it is anticipated the soil may be re-used on Site. If it is known that a stockpile will be disposed off-Site, then procedures described in Section 2.2.3 should be followed for waste characterization.

For on-site reuse, one representative soil sample composited from a minimum of four individual samples will be collected per 50 cubic yards of stockpiled soil for volumes of stockpiled soil less than 200 cubic yards. For greater volumes of excavated soil, one representative soil sample will be collected per 200 cubic yards of stockpiled soil or fraction thereof. Soil samples will be analyzed for the contaminants of concern (COCs) identified in the source soil by the procedures described above.

The sampling procedures for collecting discrete soil samples from stockpiles are the same as those described for the confirmation samples (steps 1 through 9 in Section 2.2.1).

### 2.2.3 Waste Characterization Sampling

Soil that is to be disposed off-Site will be sampled for waste characterization to evaluate waste disposal options. The number of samples to be collected for waste characterization will depend on the volume of soil to be disposed and on the requirements of the waste-receiving facility. In general for non-volatile components, one sample should be collected for every 500 cubic yards of soil to be disposed. For analysis of non-volatile components, the sample may consist of a four-point composite. For volatile components, one sample should be collected for every 125 cubic yards of soil to be disposed. Samples for volatile components should not be composited.

#### *2.2.3.1 Non-volatile Components*

One four-point composite sample will be collected for every 500 cubic yards of soil to be disposed. The samples to be analyzed for non-volatile components will be composited as follows:

1. Place the samples in a clean pan or bowl, so that they form four quadrants of a circle.
2. Using an appropriate device, mix each quadrant thoroughly.
3. Mix two quarters to form halves.
4. Mix the two halves to form a homogeneous sample.

The composited sample will be placed in laboratory-supplied, pre-cleaned 8-ounce jars. The soil should completely fill the jars to minimize headspace. The samples should be labeled and transported to the laboratory as described in Section 4.0.

#### *2.2.3.2 Volatile Components*

Samples for volatile components should not be composited. In general, one sample for volatile components should be collected for every 125 cubic yards of soil to be disposed off-Site. Sampling for volatile components will be performed using a TerraCore™ sampler to collect three 5-gram plugs of soil. The soil plugs will be immediately placed into vials. Two of the vials will contain 5 mL of deionized water and a stir bar, and one vial will contain 5 mL of methanol. The vials will be placed on water ice and cooled to 4°C. The lab must receive the vials within 48 hours to freeze the water vials, thereby extending the hold time to 14 days.

## 2.3 Building Materials Sampling

### 2.3.1 Concrete or Asphalt

Concrete and asphalt suspected of being contaminated will be sampled and the samples will be analyzed for the appropriate COCs prior to disposal. Four representative pieces will be taken for every 500 cubic yards of material to be sampled and placed in a clean plastic bag. Particle size reduction of the samples will be performed in the field as follows:

1. Remove the samples from the bag, including any fines, and place them in a clean stainless-steel pan.
2. Using a clean hammer, carefully crush or grind the material, being careful not to lose any material from the pan.
3. Continue crushing/ grinding the material until the sample size is approximately 0.375-inch in diameter. Try to minimize the creation of fines significantly smaller than 0.375 inches.
4. Pass the material through a clean 0.375-inch sieve into a glass pan.
5. Continue the process until sufficient sample is obtained.
6. Thoroughly mix and composite the material as described above for soil waste samples.
7. Transfer the resulting composite sample into the designated sample containers.

Paint on concrete will be assessed for lead as described in Section 2.3.3.

### 2.3.2 Asbestos-Containing Material

The number and location of samples of suspected asbestos-containing material (ACM) should be based on the U.S. Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) regulations. ACM sampling must be performed by a qualified and licensed California Certified Asbestos Consultant (CAC) or a Certified Site Surveillance Technician (CSST) under the direct supervision of a CAC. If the presence of ACM is confirmed, a full demolition-

level asbestos survey of structures must be performed. A demolition-level survey to comply with National Emission Standards for Hazardous Air Pollutants (NESHAP) requires accessing chases, wall cavities, roofing, and decking.

In general, the following procedures should be followed when sampling suspected ACM.

1. The immediate area shall be secured so that personnel unrelated to the ACM sampling are not present.

2. An appropriate respirator equipped with high-efficiency particulate air (HEPA) filters shall be worn while collecting samples.

3. Suspected ACM should not be sampled dry. Wet the surface of the sample area with a surfactant (typically 50% polyethylene-glycol) or water. For core sampling, a wet sponge can be placed over the sampled area and the core will be run through the sponge into the suspected ACM. Penetrate the suspected material completely with a sharp object such as a coring tool, blade or knife and remove a small section of the suspect material. Minimum sampling numbers:

    - If area of the homogenous suspect ACM is less than 1,000 linear or square feet, three (3) bulk samples shall be collected;

    - If area of homogenous suspect ACM is greater than 1,000 linear or square feet, but less than 5,000 linear or square feet, at least five (5) bulk samples shall be collected;

    - If area of homogenous suspect ACM is greater than 5,000 linear or square feet, seven (7) bulk samples shall be collected from each area.

4. Place the sample in a sealed container.

5. Patch or repair the material where the sample was removed.

6. Label the sealed container and record the following information:

    - Date;

    - Location of sample (a graphic depiction of sample location should be included for demolition records);

    - Type of material (e.g., plaster wall, thermal system insulation);

    - Name or initials of individual taking sample;

    - Laboratory that will be analyzing sample and phone number;

- Sample result (to be filled in after analysis);
- Sample number - unique to the location and/or sample.

7. Submit the sample to a laboratory accredited by the American Industrial Hygiene Association (AIHA) and the California Department of Health Services (DHS).
8. Depending on the quantifying limit needed, the sample should be analyzed by either of two methods:
    - Polarized Light Microscopy (PLM) for quantifying limits equal to or exceeding 0.1% asbestos by weight.
    - Transmission Election Microscopy (TEM) if a detection limit below 0.1% asbestos by weight is required.

### 2.3.3 Lead-Based Paint

Lead characterization activities will be conducted as part of the building survey activities. This will include the collection of:

- representative paint chip samples for lead to help evaluate Occupational Safety and Health Administration (OSHA) work practices during demolition activities; and
- representative composite building samples for waste characterization in accordance with American Society for Testing and Materials Standard E 1908-97.

Lead and Waste Extraction Test (WET) sample analyses will be performed using US Environmental Protection Agency (EPA) Method SW-846/7420 at a laboratory accredited by AIHA and DHS.

Lead-based paint sampling should be performed by a California certified Inspector/Assessor or a California certified sampling technician, under the direction of a California certified Inspector/Assessor.

#### *2.3.3.1 Lead-Based Paint Chip Sampling*

In general, the following procedures should be followed to collect a paint chip sample.

1. Write the required information about the test location and sample on a paint chip sample collection form and paint chip sample container. This information should include:
    - Project name

- General sampling site description
- Name of the person collecting the samples
- Sample identification
- Dimensions of the sampled surface

2. Using a ruler, draw an outline of the sample area on the painted surface with a permanent pen. Record the dimensions of the outlined area. Then score the outlined area using a razor knife or other cutting tool. Samples should generally be at least 1 square-inch in size, however, the minimum sample required will vary by laboratory.

3. Create a paint chip sample collection tray:

    - For horizontal surfaces, use a sheet of letter-size white paper for making a paper funnel for paint chip sample collection. In cases where the sampling location is too small to accommodate a funnel made with a sheet of the letter-size paper, cut the paper to an appropriate smaller size.
    - For vertical surfaces, center a piece of tape along one of the long edges of a clean sheet of white paper. The tape should be slightly shorter than the paper and placed so that sufficient adhesive is available to firmly stick the paper to the pain surface. Stick the paper directly below the location to be sampled with the taped edge closest to the scored location. Pull the two lower corners of the paper together and overlap slightly to form a funnel and secure with a piece of tape. Fold the bottom of the newly formed funnel up and use a piece of tape to close off the funnel bottom. Be sure no sticky tape surfaces are exposed on the inside of the funnel.
    - For overhead horizontal surfaces (painted surfaces facing down), make a closed-bottom funnel in the same manner as described for vertical surfaces above. Affix the funnel to the painted surface in a way so that it is directly under the location to be sampled without impeding access to the surface, or attach the funnel to a ladder beneath the sampling location.

4. Using a cutting tool (such as a razor knife), begin removing the paint chip sample from the substrate. Peel the paint chip sample from the substrate by sliding the blade along the score and underneath the paint chip sample. If problems are encountered in removing the paint chip sample, use a scraping tool or other equivalent tool to aid in pain chip sample removal.

5. Remove the paint chip sample collection tray from the sampling location and carefully tap the collected pain chip sample into the sample collection container.

6. The samples should be labeled and transported to the laboratory as described in Section 4.0.

#### *2.3.3.2 Building Drip-Line Sampling*

Due to the potential that structure demolition activities may release lead-based paint (LBP) into nearby soils, composite soil sampling will be conducted in the perimeter drip lines of the painted structures to provide a baseline level of lead in soil. In these areas, composite samples will be collected, which will consist of five to eight aliquots from surface (0 to 3 inches) soils surrounding the structures. One composite soil sample will be collected from each of the painted structures. Each composite sample will contain no greater than eight aliquots, and at least one composite sample will be collected from each side of the building where exposed soil is present. Samples will be collected from areas with the highest likelihood of elevated lead in soil (at areas of flaking paint or in drip lines within 2 feet of the building).

## 2.4 Liquids

### 2.4.1 Groundwater Samples

When groundwater data is not available and dewatering activities are planned for the area, groundwater samples must be collected to characterize the groundwater in the vicinity. Groundwater samples can be collected as grab samples collected from standing water in an excavated test pit as follows:

- Dedicated disposable tubing will be slowly lowered into the test pit until the tube end is submerged in the groundwater that has accumulated at the bottom of the test pit. A peristaltic pump will be used to pump groundwater sample through the tubing.
- Volatile samples will be collected first and will be unfiltered. Groundwater will be collected in three laboratory-supplied, pre-preserved 40-mL vials (see Section 3.0 for further description). When sampling for volatile analyses, the sample containers will be filled slowly so that the sample is not agitated and the container is not overfilled (which would dilute the preservative contained in the bottles). Vials will be filled so that a dome of water extends above the top of the vial. The vial will then be capped and inverted. If air bubbles are present in the vial, the sample will be discarded and a new sample will be collected.
- Samples to be analyzed for total petroleum hydrocarbons (TPH) will be collected next. Water samples for TPH analysis will be placed in unpreserved, 1-liter amber glass bottles. Amber bottles will be filled to the neck.
- Grab groundwater samples collected for metals and polynuclear aromatic hydrocarbons (PAH) analyses will be field-filtered using a disposal filter.

- Remaining samples will be collected in the appropriate bottles as described in Section 3.0.

### 2.4.2 Liquids Stored in Drums or Tanks

One sample set from each drum and/or portable tank will be collected. Samples will be collected from the influent and effluent of any on-site water treatment plants from designated sampling ports. If wastes from the same source are stored in multiple drums or tanks, the samples designated for analysis of non-volatile components from these management units will be thoroughly mixed and composited. One of the units will be sampled for analysis of volatile components.

If water samples from multiple sources are being collected, they should be collected in the expected order of degree of contamination (from the cleanest source to the most impacted).

## 2.5 Air Sampling

Air sampling may take place under the following circumstances:

- On-site visual dust monitoring will be performed during soil disturbing activities, or at any time when visible dust is present due to soil disturbing activities (Section 2.5.1).

- Perimeter air and dust monitoring ("perimeter monitoring") will be performed during large-scale soil disturbing activities (>1-acre) and in areas with contaminated soil (Section 2.5.2 through 2.5.4).

- Under some circumstances, monitoring of organic vapors in site media to help identify potentially contaminated areas (Section 2.5.3).

- Air monitoring will be performed in the work zone if contaminated soil is identified at the work site (Section 2.5.4). Air monitoring procedures and action levels must be included in the Contractor-prepared Health and Safety Plan (HASP) but at a minimum must include the protocols discussed in Section 2.5.6 and 2.5.7 of the SAP.

- Air sampling and personal exposure monitoring will be performed in the event that asbestos and/or lead-based paint abatement are required at the Site. Air sampling and monitoring procedures related to asbestos and/or lead-based paint abatement must be included in the Asbestos Abatement Work Plan and/or the Lead Based Paint Abatement Work Plan that are required for submittal by the Contractor, and are not discussed in this SAP.

The operation and maintenance of several popular types and models of instruments for measuring volatile organic compounds (VOCs) in air are discussed in Section 2.5.7.

### 2.5.1 Dust Monitoring

On-site dust monitoring will be performed during soil disturbing activities, or at any time when visible dust is present due to soil disturbing activities. Dust monitoring will be performed on an hourly basis, within 50 feet of the soil disturbing activities, using a Ringelmann No.1 Chart. The Ringelmann chart is used by placing it at eye level, at such a distance from the observer that the lines on the chart merge into shades of gray, and as nearly as possible in line with the source of dust. The observer glances from the dust plume to the chart and notes the number of the chart most nearly corresponding with the shade of the dust being monitored, then records this number with the time of observation. A clear sky is recorded as No. 0 and 100 percent opaque as No. 5.

### 2.5.2 Perimeter Monitoring - PDR

Perimeter air and dust monitoring ("perimeter monitoring") will be performed during large-scale soil disturbing activities in areas with potentially contaminated soil. Perimeter monitoring will be performed within 50 feet of the boundary of the large-scale soil disturbing activity to verify that control measures performed at the project site are adequate to prevent dust and volatile contaminants from leaving the Site.

Real-time air monitoring of total dust will be performed using real-time aerosol monitors Personal Data Rams (PDRs)] with data loggers to provide immediate information for the total dust levels present. PDRs will be placed at a height of approximately five feet.

PDR shall be operated per the manufacturer's specification and shall be calibrated daily in a zero bag. Calibration data shall be recorded daily and is described in more detail in section 2.5.7 of this SAP.

### 2.5.3 Perimeter Monitoring – Wind Speed

Wind speed and direction will be continuously monitored using a portable calibrated wind sock. Wind sock should be able to be calibrated to determine wind velocity at 15 mph or 25 miles per hour (mph).

### 2.5.4 Perimeter Monitoring – VOCs

Perimeter monitoring of airborne VOCs will be monitored using a hand-held photoionization detector (PID). The PID(s) should be operated per manufacturer specifications and shall be calibrated once daily before work commences and checked with the calibration gas at the end of each work shift. The PDR(s) shall be operated per the manufacturer's specification and shall be calibrated daily in a zero bag.

Concentrations of VOCs will be documented at the perimeter through completion of daily field logs. Calibration data shall be recorded daily and is described in more detail in section 2.5.7 of this SAP.

## 2.5.5 Monitoring of Site Media for Organic Vapors

Under certain circumstances, monitoring of organic vapors in site media can help identify potentially contaminated areas to assist with site characterization and assist in evaluating work and community exposure. Organic vapor monitoring is typically conducted using a PID or flame ionization detector (FID) for analytical screening of soil by screening soil cores, small test pits, or soil headspace. The PID or FID can also be used to evaluate organic vapors inside monitoring wells and excavations.

For volatile and semi-volatile compounds, knowing the PIP is critical in determining the appropriate instrument to use when organic vapor screening. Consult the manufacturer's manual to determine that the proper instrument has been selected for the contaminant vapors of interest. If an expected compound at a site has a PIP less than 11.7 electron volts (eV), it is possible to use a PID. If the ionization potential is greater than 11.7eV, an FID is required.

Perform operation, maintenance, and calibration according to with the manufacturer's specifications. Document results of instrument calibrations in the Field Notebook.

### *2.5.5.1 Small Test Pit Soil Screening for Organic Vapors*

Surface soil, newly exposed soil, soil stockpiles, and excavation surfaces can be screened for the presence of organic vapors using a PID or FID. Before screening newly exposed soil, soil stockpiles, and excavation surfaces, dig a small sample test pit at least 6 inches deep into the soil using a clean, decontaminated sampling tool such as a stainless-steel spoon and/or shovel. For surface soil or other soil directly exposed to the atmosphere for greater than one hour, dig an at least 18-inch-deep test pit before soil screening. Perform soil screening on freshly exposed soil. When digging, minimize the diameter of the test pit, if possible, to reduce advection of soil vapors out of the test pit. Immediately after digging, insert the sample tip of the PID or FID into the test pit, approximately 1 to 2 inches from the bottom of the test pit, taking care not to foul the sample tip with soil particulates or uptake water droplets. Record the maximum detector reading as the final sample concentration.

### *2.5.5.2 Soil Headspace Screening for Organic Vapors*

Headspace organic vapor monitoring involves the measurement of petroleum vapors emitted from soil samples in a sealed container. The headspace of the container is typically warmed and then tested for volatile organic vapors using PID or FID techniques. The results generated by this method are qualitative to semi-quantitative and are limited to organic compounds that readily volatilize.

Soil can be collected for headspace screening from various sources including lithologic soil cores during drilling, soil stockpiles, or from excavations and test pits. For soil cores, soil headspace should be screened from 1-foot intervals at zones of where contamination is expected.

The following procedures should be followed when conducting soil headspace screening for organic vapors:

- Calibrate the headspace screening instrument(s) according to the manufacture's specifications and requirements. Headspace screening will typically be performed using clean, resealable 1-quart Ziploc™ (or similar) plastic bags.
- To begin collection of headspace screening samples, collect a small amount of soil (about the equivalent of a handful) and immediately place it inside a clean, resealable 1-quart Ziploc™ (or similar) plastic bag until the plastic bag is about one-third to one-half full; then immediately seal the bag completely. Larger plastic bags should not be used to prevent vapor diffusion and stratification effects to significantly affect the sample. Samples from soil cores, excavations, or soil piles must be immediately transferred into the sample bag once the soil core is opened or the soil sample is uncovered and exposed to the atmosphere.
- Shake the bag for 15 seconds and let it rest for at least 10 minutes but no longer than one hour. The temperature of the headspace must be warmed to at least 40 degrees Fahrenheit (°F) (5°C) before testing. If the soil and/or outdoor temperature are low (<40°F) or if the soil is frozen, placing the headspace sample in a warm location at approximately room temperature (that is, indoors) may be necessary to slowly warm the sample to an acceptable temperature.
- Before testing, shake the bag for another 15 seconds to further assist volatilization.
- Insert the sample tip of the PID or FID into the bag at a point approximately one-half the headspace depth, taking care not to foul the sample tip with soil particulates or to aspirate water droplets. The sample bag insertion opening must be minimized to minimize vapors from escaping.
- After probe insertion, record the maximum detector reading as the final sample concentration in the Field Logbook.
- The maximum detector reading normally occurs between 2 and 5 seconds after probe insertion.
- If erratic instrument response occurs at high VOC concentrations or conditions of elevated headspace moisture, record the instrument behavior along with the maximum detected reading(s). Under these conditions, headspace data may be discounted.

### 2.5.6 Air Monitoring for Potential Contaminant Exposure

Air monitoring for potential exposure to airborne contaminants is typically conducted using a PID, FID, combustible gas indicator (CGI; measuring oxygen level and explosive atmosphere), MultiRAE Plus meter (measuring oxygen level, explosive atmosphere, PID, and hydrogen sulfide), or Thermo Scientific pDR1000AN dust/aerosol meter.

Air monitoring is typically conducted at one or more of the following areas for the reasons given below:

- At the source. Monitoring at this location gives a worst-case assessment of the situation. If concentrations at the source are below the action levels, then a potential exposure problem is unlikely.
- In the employee breathing zone. Monitoring should be conducted in the employees' breathing zones to determine the actual conditions that they may potentially be exposed to. Since employees doing different tasks may have different potential exposures, monitoring should be conducted for the worst case scenario for each task.

### 2.5.7 Instruments for Measuring Volatile Organic Compounds in Air

Many instruments are available for organic vapor monitoring, as well as monitoring of explosive atmosphere, oxygen levels, toxic gas, and airborne dust. Because it is beyond the scope of this SAP to describe all of these alternatives, this SAP will focus on conducting air monitoring and headspace soil vapor monitoring using the following most commonly used equipment types:

- PID
- FID
- CGI and oxygen level indicator
- Combination Meters and Multi-gas Meters (such as PID, CGI, oxygen, and hydrogen sulfide)
- Passive dust monitor

The organic vapor and air monitoring instruments most commonly expected to be used include the following:

- MiniRae 2000 PID
- Photovac MicroFID
- Thermo Scientific 580B OVM Datalogger PID

- Thermo Scientific TVA 1000A FID/PID
- MultiRae Plus Multi-gas Meter
- RKI Eagle 6 Gas Multi-gas Monitor
- Thermo Scientific pDR1000AN Dust/Aerosol Meter

The MiniRae 2000 PID and Photovac MicroFID are the most commonly used instruments for organic vapor monitoring. A Thermo Scientific 580B OVM Datalogger PID is a common PID that has been historically used before development of the MiniRae 2000 PID. A Thermo Scientific TVA 1000 FID/PID combines the detection capabilities of both a FID and a PID in a single instrument. A MultiRae Plus meter combines a PID, with detection of oxygen levels, combustible vapor, and toxic hydrogen sulfide. Similarly, the RKI Eagle 6 Gas Monitor detects up to six custom gas types simultaneously, including lower explosive limit (LEL), oxygen, carbon dioxide, hydrogen sulfide, methane, and other toxic gases. The Thermo Scientific pDR1000AN is direct-reading, personal, aerosol monitor designed to provide accurate, real-time measurement of airborne dust and particulate concentrations.

#### *2.5.7.1 Equipment Calibration*

To ensure that field air monitoring equipment will be properly calibrated and remain operable in the field, calibrate all field air monitoring equipment daily before use and at least once every day during use. Other project-specific requirements may require calibration of air monitoring equipment at a greater frequency. Calibrate all field air monitoring equipment onsite and verify that all calibration standards used meet the minimum requirements for source and purity recommended by the instrument manufacturer. PIDs and FIDs are typically calibrated with 100 parts per million (ppm) isobutylene and 500 ppm methane calibration standards, respectively; however, other project-specific calibration standard concentrations maybe required. Calibrate PIDs and FIDs to detect “total organic vapor” concentrations in ppm benzene equivalent. Both PIDs and FIDs must be capable of ionizing the expected contaminants of concern.

Calibrate all field air monitoring equipment within calibration acceptance criteria, based on contaminants of concern potentially encountered and within the instruments operational limits. If instrument readings appear to be irregular or drifting, attempt to recalibrate instruments before collecting additional data. Flag apparent instrument drift or erratic instrument readings on any field datasheets used to record data and in the Field Notebook. If the instrument cannot be recalibrated, take the instrument out of service and replace it with a different unit that is capable of being calibrated and used with reliability.

Before starting any air monitoring, document the following calibration information in the Field Notebook for routine instrument calibration:

- Calibration Date and Time

- Instrument Type, Name, Serial Number, and Owner
- Lamp Type (PID only)
- Type of regulator
- Type of tubing (such as direct tubing or T-connection)
- Calibration gas type, canister lot number, and expiration date
- Zero gas calibration reading
- Calibration gas (span gas) reading
- Ambient weather condition (for example, temperature and wind direction)
- Operators initials
- Other notes and comments

#### *2.5.7.2 Organic Vapor Monitoring with a Photoionization Detector*

The following procedures are specific to the MiniRae 2000 PID instrument; however, they are generally applicable to other manufacturer's instruments, and the precautions to consider are the same. The photo ionization potential (PIP) of the expected site contaminant(s) may determine that an FID is needed instead of a PID. If an FID is required, the procedure for using it is essentially the same as a PID; therefore, this section will not separately address FID procedures. Regardless of the type of instrument used, manufacturer-specific manuals should be consulted before instrument use.

The MiniRAE 2000 PID is a portable, non-specific vapor/gas detector employing the principle of photoionization to detect a wide variety of VOCs. Use a PID during intrusive activities (for example, excavating) where there is potential for the presence of petroleum or VOC contamination.

Calibrate the PID each day, following the calibration specifications of the manufacturer and before the start of field activities. If the PID is in continuous operation, verify daily calibration. Perform instrument calibration using isobutylene calibration gas of known concentration; 100 ppm isobutylene calibration gas is preferred.

The following provide additional details about the PID:

- The MiniRae 2000 PID will typically operate continuously for up to 8 hours before requiring battery recharging.

- Elevated water vapor concentrations experienced in high humidity will foul the PID and may result in a negative or erroneous reading. If high humidity problems persist, use of Rae Systems Humidity Filtering II Tubes may be necessary.

- MiniRAE 2000 PID readings are always relative to the calibration gas. After calibration with 100 ppm isobutylene, the MiniRAE 2000 PID will respond directly in units equivalent to isobutylene.

- Most VOCs will be detected by the Mini RAE 2000 PID. However, it cannot distinguish between isobutylene and other ionizable compounds. A reading of 10 ppm indicates all ionizable compounds that are present have generated an ion current equivalent to 10 ppm of isobutylene. The reading is actually 10 ppm isobutylene-equivalent units.

The lamp window must be periodically cleaned according to the instructions in the manual provided with the instrument to ensure ionization of the volatilized contaminants.

# 3.0 ANALYTICAL METHODS, SAMPLE CONTAINERS, PRESERVATION AND STORAGE

The following sections present analytical methods, minimum sample size requirements, sample containers, sample preservation methods, and maximum sample holding times.

## 3.1 Soil, Sludges, Sediments, and Other Solids

| Analytical Group | Analytical Testing Method | Minimum Sample Mass (grams) | Container (number, size, and type) | Preservation Requirements (chemical, temperature, light protected) | Maximum Holding Time (preparation/ analysis) |
|---|---|---|---|---|---|
| Metals | EPA 6010B/6020 | 2 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 180 days |
| Mercury | EPA 7471A | 2 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 28 days |
| PAHs or SVOCs | EPA 8270C | 30 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 14 days to extraction<br>40 days after extraction |
| PCBs | EPA 8082 | 30 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 14 days to extraction<br>40 days after extraction |
| Organochlorine pesticides | EPA 8081A | 30 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 14 days to extraction<br>40 days after extraction |
| Dioxins/Furans | EPA 8290 | 30 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4 ± 2 °C | 30 days to extraction<br>40 days after extraction |
| VOCs | EPA 8260B | 5 | 3 TerraCore devices or equivalent | Cool at 4±2°C | 48 hours for unpreserved<br>14 days for preserved |
| TPH as diesel or bunker oil | EPA 8015B | 50 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 14 days for extraction<br>40 days for analysis |
| TPH as gasoline | EPA 8015B | 5 | 3 TeraCore devices or equivalent | Cool at 4±2°C | 7 days |
| Asbestos | CARB Method 435 | 2 | 4- or 8-ounce glass jar with Teflon-lined lid or plastic bag | No preservative required | None |
| Soluble threshold limit concentration (STLC) | California W.E.T. | 50 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | Pending total metals results |

| Analytical Group | Analytical Testing Method | Minimum Sample Mass (grams) | Container (number, size, and type) | Preservation Requirements (chemical, temperature, light protected) | Maximum Holding Time (preparation/ analysis) |
|---|---|---|---|---|---|
| Toxicity characteristic leaching potential (TCLP) | EPA 1311 | 100 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | Pending total metals results |
| Corrosivity | SW-846 9045B | 100 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 7 days |
| Ignitability | SW846 1010A | 100 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 7 days |
| Toxicity | 96-hour Static Acute Fish Bioassay | 25 | 4- or 8-ounce glass jar with Teflon-lined lid or stainless steel liner | Cool at 4±2°C | 36 hours |

## 3.2 Water/Aqueous Samples

| Analytical Group | Analytical Testing Method | Minimum Sample Volume (mL) | Container (number, size, and type) | Preservation Requirements (chemical, temperature, light protected) | Maximum Holding Time (preparation/ analysis) |
|---|---|---|---|---|---|
| Biochemical Oxygen Demand (BOD) | EPA 405.1/SM 5210B | 300 | 500 ml HDPE | Cool at 4±2°C | 48 hours |
| Chemical Oxygen Demand (COD) | EPA 410.4/SM 5220D | 50 | 250 ml glass | Cool at 4±2°C | 28 days |
| Chromium VI (Hexavalent Chromium) | EPA 7196A | 200 | 250 ml HDPE | Cool at 4±2°C | 24 hours |
| pH | EPA 150.1 | 50 | 125 ml HDPE | Cool at 4±2°C | ASAP (24 hours) |
| Solids, Total Dissolved (TDS) | EPA 160.1 | 200 | 500ml HDPE | Cool at 4±2°C | 7 days |
| Solids, Total Suspended (TSS) | EPA 160.2 | 200 | 500ml HDPE | Cool at 4±2°C | 7 days |
| Solids, Total (TS) | EPA 160.3 | 200 | 500 ml HDPE | Cool at 4±2°C | 7 days |
| Total Organic Carbon (TOC) | EPA 415.1 | 150 | 250 ml glass | $H_2SO_4$, Cool at 4±2°C | 28 days |
| Turbidity | EPA 180.1 | 100 | 125 ml HDPE | Cool at 4±2°C | 48 hours |
| Mercury | EPA 7470A | 100 | 250 ml HDPE | HNO3,l Cool at 4±2°C | 28 days |
| Metals | EPA 6010B/200.7 | 100 | 250 ml HDPE | HNO3, Cool at 4±2°C | 180 days |
| PAHs | EPA 8270C | 1000 | 1 L amber glass | Cool at 4±2°C | 7 days for extraction, 40 days after extraction |
| VOCs | EPA | 40 | 3-40 ml VOA | HCl, Cool at | 14 days |

| Analytical Group | Analytical Testing Method | Minimum Sample Volume (mL) | Container (number, size, and type) | Preservation Requirements (chemical, temperature, light protected) | Maximum Holding Time (preparation/ analysis) |
|---|---|---|---|---|---|
| | 8260B/624 | | vials | 4±2°C | |
| TPH-diesel | EPA 8015Modified | 1000 | 1000 ml amber glass | Cool at 4±2°C | 14 days |
| TPH – gasoline/benzene, toluene, ethbylbenzene, xylenes (BTEX), Methyl-tert-butyl-ether (MTBE) | EPA 8015M/8021B | 40 | 2-40 ml VOA vials | Cool at 4±2°C | 14 days |
| TPH - gasoline | EPA 8015Modified | 5 | 2-40 ml VOA vials | Cool at 4±2°C | 14 days |
| TPH | EPA 418.1 | 1000 | 1000 ml amber glass | Cool at 4±2°C | 28 days |

## 3.3 Lead-Based Paint Sampling

| Analytical Group | Analytical Testing Method | Minimum Sample Volume or Mass | Container (number, size, and type) | Preservation Requirements (chemical, temperature, light protected) | Maximum Holding Time (preparation/ analysis) |
|---|---|---|---|---|---|
| Lead | Flame atomic absorption spectroscopy (FAAS) by SW-846/7420 | 2 grams | 4- or 8-ounce glass jar with Teflon-lined lid | No preservative required | None |

## 3.4 Suspect ACM

| Analytical Group | Analytical Testing Method | Minimum Sample Volume or Mass | Container (number, size, and type) | Preservation Requirements (chemical, temperature, light protected) | Maximum Holding Time (preparation/ analysis) |
|---|---|---|---|---|---|
| Asbestos | PLM | 1 cubic centimeter | 4- or 8-ounce glass jar with Teflon-lined lid or plastic bag | No preservative required | None |
| Asbestos | TEM | 1 cubic centimeter | 4- or 8-ounce glass jar with Teflon-lined lid or plastic bag | No preservative required | None |

# 4.0 SAMPLE DOCUMENTATION AND SHIPMENT

Sampling information will be recorded on a chain-of-custody form and in a field logbook. All entries will be legible and recorded in indelible ink.

## 4.1 Labeling

Sample labels will be filled out with indelible ink and affixed to each sample container. Non-waterproof sample labels will be covered with clear tape. Sample containers will be placed in resealable plastic bags to protect the sample from moisture during transportation to the laboratory. Each sample container will be labeled with the following, at a minimum:

- Sample identification number
- Sample collection date (month/day/year)
- Time of collection (24-hour clock)
- Project number
- Sampler's initials
- Analyses to be performed
- Preservation (if any)
- Location (i.e., site name)

## 4.2 Chain-of-Custody Forms and Custody Seals

An example chain-of-custody form is shown on Figure 1. Chain-of-custody forms are used to document sample collection and shipment to laboratories for analysis, as well as serving as a formal request for sample analyses. The chain-of-custody form will be completed, signed, and distributed as follows:

- One copy retained by the sampler for their project files
- Original sent to the analytical laboratory with the sample shipment

The chain-of-custody form will identify the contents of each shipment and maintain the custodial integrity of the samples. Generally, a sample is considered to be in someone's custody if it is either in someone's physical possession, in someone's view, locked up, or kept in a secured area that is restricted to authorized personnel. Until the samples are shipped or delivered to a California-certified Laboratory, the custody of the samples will be the responsibility of the person who collected the samples.

The sampler or designee will sign the chain-of-custody form in the "relinquished by" box and note date, time, and air bill number. The sample numbers for all samples, reference samples, laboratory QC samples, and duplicates will be documented on the chain-of-custody form. The original form is left with the laboratory analyzing the samples.

The shipping containers in which the samples are stored (usually an ice chest), will be sealed with self-adhesive custody seals any time the samples are not in someone's possession or view before shipping. All custody seals will be signed and dated.

## 4.3 Packaging

After sample collection, sample labels will be affixed to each sample container. Each sample will be placed in a resealable plastic bag to keep the sample container and the label dry. All glass sample containers will be protected with bubble wrap (or other cushioning material) to prevent breakage. A temperature blank will be placed in every cooler with samples.

Samples to be shipped by commercial carrier will be packed in a sample cooler lined with a plastic bag. Ice, double-bagged in resealable bags, will be added to the cooler in sufficient quantity to keep the samples cooled to 4°C, plus or minus 2°C, for the duration of the shipment to the laboratory. Sample cooler drain spouts will be taped from the inside and outside of the cooler to prevent any leakage. Saturday deliveries will be coordinated with the laboratory.

If samples are picked up by a laboratory courier service, the chain-of-custody form will be completed and signed by the laboratory courier. The cooler will then be released to the courier for transportation to the laboratory.

If a commercial carrier is used, the chain-of-custody form will include the airbill number in the "Transfers Accepted By" column, and will be sealed in a resealable bag. The chain-of-custody form will then be taped to the inside of the sample cooler lid. The cooler will be taped shut with strapping tape, and two custody seals will be taped across the cooler lid. Clear tape will be applied to the custody seals to prevent accidental breakage during shipping. The samples will then be shipped to the analytical laboratory. A copy of the courier airbill will be retained for documentation.

The shipping of samples to the analytical laboratory by land delivery services will be performed according to the U.S. Department of Transportation regulations. The International Air Transportation Association regulations will be adhered to when shipping samples by air courier services. Transportation methods will be selected to ensure that the samples arrive at the laboratory in time to permit testing according to established holding times and project schedules. No samples will be accepted by the receiving laboratory without a properly prepared chain-of-custody record and properly labeled and sealed shipping container(s).

## 4.4 Field Logbooks

A permanently bound field logbook with consecutively numbered pages will be assigned to this project. All entries will be recorded in indelible ink. Corrections will be made following the procedure described in Section 4.5. At the end of each workday, the responsible sampler will sign the logbook pages, and any unused portions of a logbook page will be crossed out, signed, and dated.

At a minimum, the logbook will contain the following information:

- Project name and location (on the front page of the log book)
- Date and time of collection for each sample (in the upper right corner of each page)
- Sample number
- Sample location (i.e., soil boring or sampling point)
- Sample type (i.e., soil and water)
- Composite or grab
- Composite type (the number of grab samples)
- Depth of sample
- Weather information (e.g., rain, sunny, approximate temperature, etc.)
- Containers used and requested analyses

The logbook should also contain the following information:

- A map with sample locations (drawn or pasted copy). Each sample location must be clearly identified on the map. Several sample locations may be presented on one map; however, the page with the map must be referred on each of the individual sample pages.
- Field analyses performed, including results, instrument checks, problems, and calibration records for field instruments.
- Descriptions of deviations from this SAP.
- Problems encountered and corrective action taken.
- Identification of field quality control (QC) samples.
- List of QC activities.

The sampler will cross out the unused portion and sign each page.

## 4.5 Document Corrections

Changes or corrections on any project documentation will be made by crossing out the item with a single line, initialing by the person performing the correction, and dating the correction. The original item, although erroneous, will remain legible beneath the cross out. The new information will be written above the crossed-out item. Corrections will be written clearly and legibly with indelible ink.

# ATTACHMENT 1

EXAMPLE CHAIN OF CUSTODY FORM

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# Chain Of Custody

1404 Franklin Street, Suite 600 Phone: (510) 645-1850
Oakland, California 94612 Fax: (510) 380-6304

Page ____ of ____
Chain Of Custody Number: ___

Project Name:

Project Number:

Sampler:

Lab Report To:

Contact Information:

Telephone:

E-Mail:

Turnaround Time
- ☐ Standard
- ☐ Rush

Report Level
- ☐ Level II
- ☐ Level III
- ☐ Level IV

| Lab Number | Sample ID | Sampling | | Matrix | | | Preservative | | | | | Analytical Request | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Date Collected | Time Collected | Soil | Water | Other | H2SO4 | HNO3 | NaOH | None | Number of Containers | | | | | | | | | | | | | | |
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# APPENDIX E

TRANSPORTATION AND DISPOSAL FORMS

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## WASTE TRACKING LOG

**Former Naval Fuel Depot Point Molate, Richmond, California**

**DATE:**

terraphase engineering
1404 Franklin Street, Suite 600, Oakland, CA
510-645-1858
www.terraphase.com

**Profile Information:**

| | |
|---|---|
| Generator information including name, address, contact, and phone number | |
| Site name including street/mailing address | |
| Environmental site name (if applicable) | |

| Waste Stream # (e.g., stockpile number, drum #, etc) | Waste Type (soild or liquid) | Estimated weight or volume | First Date of Accumulation | Waste Storage (roll-off bin, drum, stockpile, etc) | Waste Name (primary contaminant e.g., asbestos, TPH, LBP) | Characterization (hazardous, non-hazardous) | Sample Date(s) | Sample ID(s) | Date Shipped Off-Site | Manifest or Bill of Lading Document Number | Receiving Facility | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
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# APPENDIX F

TRANSPORTATION ROUTES

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# APPENDIX F
# TRANSPORTATION ROUTES
# FORMER POINT MOLATE NAVAL FUEL DEPOT
# RICHMOND, CALIFORNIA

*On Behalf of*

City of Richmond
450 Civic Center Plaza
Richmond, CA 94804

*Prepared for*

Mr. James Levine
Upstream Point Molate
2000 Powell Street, Suite 920
Emeryville, CA 94608

*Prepared by*

Terraphase Engineering Inc.
1404 Franklin Street, Suite 600
Oakland, California 94612

June 12, 2012

Project Number 0001.001.007

terraphase engineering

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7 Route Map: From the Site to Altamont Landfill
8 Route Map: From the Site to Hay Road Landfill
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12 Route Map: From the Site to Vasco Road Landfill
13 Route Map: From the Site to Kirby Canyon Landfill
14 Route Map: From the Site to Newby Island Landfill

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# 1.0 INTRODUCTION

The Transportation Routes included in this appendix have been prepared to present the acceptable trucking routes that should be followed to the identified disposal facilities during activities related to remediation and development activities at the Former Naval Fuel Depot (NFD) Point Molate in Richmond, California (the Site; Figure 1). The Waste Transportation Routes are intended for use as an appendix to the Soil and Groundwater management Plan (SGWMP) prepared for the Site. The SGWMP specifies the procedures and protocols to be followed to properly characterize and dispose of waste materials that may be generated at the Site.

# 2.0 TRANSPORTATION ROUTES

Transportation of materials will take place on arterial streets and/or freeways, approved for truck traffic, to reduce potential impact on the local neighborhood. Trucks approaching the NFD Point Molate from Interstate 580 (I-580) will use the exit labeled Western Drive, Point Molate. Designated loading areas must be established as part of the planning process for work that will be conducted within the NFD Point Molate and will vary depending on location, scope and phase of work. The Site Features are shown on Figure 2. In general, the transport trucks will exit the Site on Western Drive towards I-580.

The following sections describe general routes to the various waste disposal facilities from NFD Point Molate.

## 2.1 Driving Directions to Kettleman Hills Facility

The route from the Site to the Kettleman Hills Facility in Kettleman City, California is shown on Figure 3. The driving directions are presented below.

Distance (one way): 215 miles
Approximate driving time (one way): 3 hours and 39 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | 1. Head **south** on **Western Dr** | 0.6 mi |
| | 2. Take the ramp onto **I-580 E** | 6.7 mi |
| | 3. Merge onto **I-80 W** | 3.8 mi |
| | 4. Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | 5. Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 14.1 mi |
| | 6. Take exit **31** for **I-238** toward **I-580/Stockton/Fresno** | 0.4 mi |
| | 7. Follow signs for **I-238/I-880/Castro Valley/Stockton Fresno** and merge onto **I-238 S** | 2.7 mi |
| | 8. Merge onto **I-580 E** | 46.3 mi |
| | 9. Merge onto **I-5 S** | 137 mi |
| | 10. Take exit **309** for **CA-41** toward **Kettleman City/Paso Robles** | 0.3 mi |
| | 11. Turn right onto **CA-41 S** | 2.6 mi |
| | 12. Turn right onto **Old State Hwy** | 0.7 mi |
| | 13. Continue onto **Skyline Rd** | 0.2 mi |
| B | **35251 Old Skyline Blvd**<br>Kettleman City, CA | |

## 2.2 Driving Directions to Buttonwillow Facility

The route from the Site to the Buttonwillow Facility in Buttonwillow, California is shown on Figure 4. The driving directions are presented below.

Distance (one way): 266 miles
Approximate driving time (one way): 4 hours and 31 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | 1. Head **south** on **Western Dr** | 0.6 mi |
| | 2. Take the ramp onto **I-580 E** | 6.7 mi |
| | 3. Merge onto **I-80 W** | 3.8 mi |
| | 4. Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | 5. Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 14.1 mi |
| | 6. Take exit **31** for **I-238** toward **I-580/Stockton/Fresno** | 0.4 mi |
| | 7. Follow signs for **I-238/I-880/Castro Valley/Stockton Fresno** and merge onto **I-238 S** | 2.7 mi |
| | 8. Merge onto **I-580 E** | 46.3 mi |
| | 9. Merge onto **I-5 S** | 182 mi |
| | 10. Take exit **263** toward **Buttonwillow/McKittrick** | 0.3 mi |
| | 11. Merge onto **Buttonwillow Dr** | 3.7 mi |
| | 12. Turn right onto **CA-58 W/Blue Star Memorial Hwy/McKittrick Hwy** | 3.5 mi |
| | 13. Turn right onto **Lokern Rd** | 0.7 mi |
| B | **Lokern Rd**<br>Buttonwillow, CA 93206 | |

## 2.3 Driving Directions to US Ecology Facility

The route from the Site to the US Ecology Facility in Beatty, Nevada is shown on Figure 5. The driving directions are presented below.

Distance (one way): 529 miles
Approximate driving time (one way):9 hours and 36 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 6.7 mi |
| | **3.** Merge onto **I-80 W** | 3.8 mi |
| | **4.** Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | **5.** Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 14.1 mi |
| | **6.** Take exit **31** for **I-238** toward **I-580/Stockton/Fresno** | 0.4 mi |
| | **7.** Follow signs for **I-238/I-880/Castro Valley/Stockton Fresno** and merge onto **I-238 S** | 2.7 mi |
| | **8.** Merge onto **I-580 E** | 46.3 mi |
| | **9.** Merge onto **I-5 S** | 188 mi |
| | **10.** Take exit **257** for **CA-58** toward**Bakersfield** | 0.3 mi |
| | **11.** Turn left onto **CA-58 E/Blue Star Memorial Hwy/Rosedale Hwy** | 8.4 mi |
| | **12.** Turn right onto **CA-43/CA-58/Enos Ln** | 1.0 mi |
| | **13.** Turn left onto **California State Route 58/Rosedale Hwy**<br>Continue to follow Rosedale Hwy | 12.1 mi |
| | **14.** Continue onto **24th St** | 0.6 mi |
| | **15.** Continue onto **CA-178 E/23rd St**<br>Continue to follow CA-178 E | 85.4 mi |
| | **16.** Turn left onto **CA-14 N/CA-178 E/Aerospace Hwy/Midland Trail**<br>Continue to follow CA-14 N/Aerospace Hwy | 7.2 mi |
| | **17.** Merge onto **US-395 N** | 41.5 mi |
| | **18.** Turn right onto **CA-190 E** | 14.6 mi |
| | **19.** Turn right to stay on **CA-190 E** | 68.4 mi |
| | **20.** Turn left onto **Scottys Castle Rd** | 0.6 mi |
| | **21.** Take the 1st right onto **Daylight Pass Rd**<br>Entering Nevada | 14.2 mi |
| | **22.** Continue onto **NV-374 N** | 11.8 mi |
| | **23.** Continue onto **Main St** | 0.3 mi |
| | **24.** Continue onto **US-95 N/Veterans Memorial Hwy**<br>Destination will be on the left | 413 ft |

| | | |
|---|---|---|
| B | **US Ecology Nevada Inc**<br>Highway 95 S<br>Beatty, NV 89003 | |

## 2.4 Driving directions to Keller Canyon Landfill Co

The route from the Site to the Keller Canyon facility in Bay Point, California is shown on Figure 6. The driving directions are presented below.

Distance (one way): 34.6 miles
Approximate driving time (one way): 46 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 3.8 mi |
| | **3.** Take exit **10B** for **Regatta Blvd** | 0.3 mi |
| | **4.** Turn left onto **Regatta Blvd** | 0.1 mi |
| | **5.** Continue onto **Juliga Woods St** | 0.4 mi |
| | **6.** Turn right onto **S 31st St** | 259 ft |
| | **7.** Take the 1st right onto **Cutting Blvd** | 1.0 mi |
| | **8.** Slight right to merge onto **I-80 E** | 7.9 mi |
| | **9.** Take exit **23** to merge onto **CA-4 E** toward**Stockton** | 19.4 mi |
| | **10.** Take exit **20A** for **Bailey Rd S** | 0.4 mi |
| | **11.** Turn right onto **Bailey Rd**<br>Destination will be on the left | 0.4 mi |
| B | **901 Bailey Rd**<br>Pittsburg, CA 94565 | |

## 2.5 Driving directions to Altamont Landfill

The route from the Site to the Altamont Landfill in Livermore, California is shown on Figure 7. The driving directions are presented below.

Distance (one way): 55 miles
Approximate driving time (one way): 1 hour 6 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | 1. Head **south** on **Western Dr** | 0.6 mi |
| | 2. Take the ramp onto **I-580 E** | 6.7 mi |
| | 3. Merge onto **I-80 W** | 3.8 mi |
| | 4. Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | 5. Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 14.1 mi |
| | 6. Take exit **31** for **I-238** toward **I-580/Stockton/Fresno** | 0.4 mi |
| | 7. Follow signs for **I-238/I-880/Castro Valley/Stockton Fresno** and merge onto **I-238 S** | 2.7 mi |
| | 8. Merge onto **I-580 E** | 20.3 mi |
| | 9. Take exit **55** for **Vasco Rd** toward **Brentwood** | 0.2 mi |
| | 10. Keep left at the fork, follow signs for**Vasco Road N** and merge onto **N Vasco Rd** | 0.5 mi |
| | 11. Turn right onto **Northfront Rd** | 0.8 mi |
| | 12. Continue onto **Altamont Pass Rd**<br>Destination will be on the right | 4.4 mi |
| B | **10840 Altamont Pass Rd**<br>Livermore, CA 95391 | |

## 2.6 Driving directions to Hay Road Landfill

The route from the Site to the Hay Road Landfill in Vacaville, California is shown on Figure 8. The driving directions are presented below.

Distance (one way): 63 miles
Approximate driving time (one way): 1 hour 15 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | 1. Head **south** on **Western Dr** | 0.6 mi |
| | 2. Take the ramp onto **I-580 E** | 3.8 mi |
| | 3. Take exit **10B** for **Regatta Blvd** | 0.3 mi |

| | | |
|---|---|---|
| | 4. Turn left onto **Regatta Blvd** | 0.1 mi |
| | 5. Continue onto **Juliga Woods St** | 0.4 mi |
| | 6. Turn right onto **S 31st St** | 259 ft |
| | 7. Take the 1st right onto **Cutting Blvd** | 1.0 mi |
| | 8. Slight right to merge onto **I-80 E**<br>Partial toll road | 27.8 mi |
| | 9. Take exit **43** to merge onto **CA-12 E**toward **Rio Vista/Suisun City** | 17.6 mi |
| | 10. Turn left onto **CA-113 N** | 7.0 mi |
| | 11. Turn left onto **CA-113 N/Rio Dixon Rd** | 1.0 mi |
| | 12. Turn right to stay on **CA-113 N/Rio Dixon Rd** | 2.0 mi |
| | 13. Turn left onto **Hay Rd**<br>Destination will be on the left | 0.8 mi |
| B | **6426 Hay Rd**<br>Vacaville, CA 95620 | |

## 2.7 Driving directions to Ostrom Road Landfill

The route from the Site to the Ostrom Road Landfill in Wheatland, California is shown on Figure 9. The driving directions are presented below.

Distance (one way): 119 miles
Approximate driving time (one way): 2 hours 16 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 3.8 mi |
| | **3.** Take exit **10B** for **Regatta Blvd** | 0.3 mi |
| | **4.** Turn left onto **Regatta Blvd** | 0.1 mi |
| | **5.** Continue onto **Juliga Woods St** | 0.4 mi |
| | **6.** Turn right onto **S 31st St** | 259 ft |

| | | |
|---|---|---|
| | **7.** Take the 1st right onto **Cutting Blvd** | 1.0 mi |
| | **8.** Slight right to merge onto **I-80 E**<br>Partial toll road | 70.7 mi |
| | **9.** Take exit **86** for **I-5 N** toward **CA-99/Redding** | 0.7 mi |
| | **10.** Follow signs for **I-5 N** and merge onto**CA-99 N/I-5 N** | 2.9 mi |
| | **11.** Slight right onto **CA-99** (signs for **Yuba City/Marysville**) | 12.5 mi |
| | **12.** Slight right onto **CA-70 N** (signs for**California 70/Marysville/Oroville**) | 15.9 mi |
| | **13.** Take exit **16** for **McGowan Pkwy** | 0.3 mi |
| | **14.** Turn right onto **McGowan Pkwy** | 0.6 mi |
| | **15.** Turn right to merge onto **CA-65 S** | 4.1 mi |
| | **16.** Turn left onto **S Beale Rd** | 2.9 mi |
| | **17.** Turn right onto **Ostrom Rd**<br>Destination will be on the right | 2.2 mi |
| B | **5900 Ostrom Rd**<br>Wheatland, CA 95692 | |

## 2.8 Driving directions to Forward and Austin Road Landfills

The route from the Site to the Forward and Austin Road Landfills in Manteca, California is shown on Figure 10. The driving directions are presented below.

Distance (one way): 87 miles
Approximate driving time (one way): 1 hour 48 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | 1. Head **south** on **Western Dr** | 0.6 mi |
| | 2. Take the ramp onto **I-580 E** | 6.7 mi |
| | 3. Merge onto **I-80 W** | 3.8 mi |
| | 4. Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | 5. Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 14.1 mi |

| | | |
|---|---|---|
| | 6. Take exit **31** for **I-238** toward **I-580/Stockton/Fresno** | 0.4 mi |
| | 7. Follow signs for **I-238/I-880/Castro Valley/Stockton Fresno** and merge onto **I-238 S** | 2.7 mi |
| | 8. Merge onto **I-580 E** | 29.3 mi |
| | 9. Continue straight onto **I-205 E** | 14.6 mi |
| | 10. Merge onto **I-5 N** | 3.6 mi |
| | 11. Take exit **463** for **Lathrop Rd** | 0.4 mi |
| | 12. Turn right onto **Lathrop Rd** | 5.6 mi |
| | 13. Turn left onto **Austin Rd** | 3.7 mi |
| | 14. Turn left<br>Restricted usage road | 1.3 mi |
| B | **9999 S Austin Rd**<br>Manteca, CA 95336 | |

## 2.9 Driving directions to Guadalupe Landfill

The route from the Site to the Guadalupe Landfill in San Jose, California is shown on Figure 11. The driving directions are presented below.

Distance (one way): 68 miles
Approximate driving time (one way): 1 hour 23 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 6.7 mi |
| | **3.** Merge onto **I-80 W** | 3.8 mi |
| | **4.** Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | **5.** Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 45.6 mi |
| | **6.** Continue onto **CA-17 S** | 4.0 mi |
| | **7.** Take exit **22** to merge onto **CA-85 S** toward **Gilroy** | 3.0 mi |

| | | |
|---|---|---|
| | **8.** Take exit **8** for **Camden Ave** | 0.3 mi |
| | **9.** Turn left onto **Camden Ave** | 1.7 mi |
| | **10.** Turn right onto **Guadalupe Mines Rd**<br>Destination will be on the right | 2.1 mi |
| B | **15999 Guadalupe Mines Rd**<br>San Jose, CA 95120 | |

## 2.10 Driving directions to Vasco Road Landfill

The route from the Site to the Vasco Road Landfill in Livermore, California is shown on Figure 12. The driving directions are presented below.

Distance (one way): 51 miles
Approximate driving time (one way): 57 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 6.7 mi |
| | **3.** Merge onto **I-80 W** | 3.8 mi |
| | **4.** Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | **5.** Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 14.1 mi |
| | **6.** Take exit **31** for **I-238** toward **I-580/Stockton/Fresno** | 0.4 mi |
| | **7.** Follow signs for **I-238/I-880/Castro Valley/Stockton Fresno** and merge onto **I-238 S** | 2.7 mi |
| | **8.** Merge onto **I-580 E** | 20.3 mi |
| | **9.** Take exit **55** for **Vasco Rd** toward **Brentwood** | 0.2 mi |
| | **10.** Keep left at the fork, follow signs for **Vasco Road N** and merge onto **N Vasco Rd**<br>Destination will be on the right | 2.9 mi |
| B | **4001 N Vasco Rd**<br>Livermore, CA 94551 | |

## 2.11 Driving directions to Kirby Canyon Landfill

The route from the Site to the Kirby Canyon Landfill in Morgan Hill, California is shown on Figure 13. The driving directions are presented below.

Distance (one way): 72 miles
Approximate driving time (one way): 1 hour 23 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 6.7 mi |
| | **3.** Merge onto **I-80 W** | 3.8 mi |
| | **4.** Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | **5.** Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 41.5 mi |
| | **6.** Take exit **4B** to merge onto **US-101 S** toward **Los Angeles** | 17.3 mi |
| | **7.** Take exit **371** for **Coyote Creek Golf Dr** | 0.3 mi |
| | **8.** Turn left onto **Coyote Creek Golf Dr**<br>Destination will be on the right | 1.3 mi |
| B | **910 Coyote Creek Golf Dr**<br>Morgan Hill, CA 95037 | |

## 2.12 Driving directions to Newby Island Landfill

The route from the Site to the Newby Island Landfill in Milpitas, California is shown on Figure 14. The driving directions are presented below.

Distance (one way): 58 miles
Approximate driving time (one way): 1 hour 4 minutes

| | | |
|---|---|---|
| A | **Point Molate Fuel Depot**<br>Richmond, CA 94801 | |
| | **1.** Head **south** on **Western Dr** | 0.6 mi |
| | **2.** Take the ramp onto **I-580 E** | 6.7 mi |
| | **3.** Merge onto **I-80 W** | 3.8 mi |

| | | |
|---|---|---|
| | **4.** Continue onto **I-580 E/I-880 S** (signs for **Downtown/Oakland/Hayward/Stockton/Alameda/San Jose**) | 0.3 mi |
| | **5.** Slight right onto **I-880 S** (signs for **W Grand Ave/San Jose/Alameda**) | 34.8 mi |
| | **6.** Take exit **10** for **Dixon Landing Rd** | 0.3 mi |
| | **7.** Turn right onto **Dixon Landing Rd**<br>Partial restricted usage road<br>Destination will be on the left | 0.3 mi |
| B | **1601 Dixon Landing Rd**<br>Milpitas, CA 95134 | |

# APPENDIX G

QUALITY CONTROL PLAN

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# APPENDIX G
# QUALITY CONTROL PLAN
# FORMER NAVAL FUEL DEPOT POINT MOLATE
# RICHMOND, CALIFORNIA

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*On Behalf of*

City of Richmond
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*Prepared for*

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June 12, 2012

Project Number 0001.001.007

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## Acronyms and Abbreviations

| | |
|---|---|
| EPA | US Environmental Protection Agency |
| GPC | gel permeation chromatography |
| ICS | interference check samples |
| LCS | laboratory control sample |
| LCS/LCSD | laboratory control sample/ laboratory control sample duplicate |
| MS/MSD | matrix spike/matrix spike duplicate |
| NFD | Naval Fuel Depot |
| QC | quality control |
| QCP | Quality Control Plan |
| SAP | Sampling and Analysis Plan |
| SGWMP | Soil and Groundwater Management Plan |

# 1.0 INTRODUCTION

This Quality Control Plan (QCP) has been prepared to present the quality control (QC) requirements for the sampling and analysis of contaminated (or potentially contaminated) soils, liquids, and other materials that will be conducted during emergency and non- emergency remediation and development activities at the Former Naval Fuel Depot (NFD) Point Molate in Richmond, California (the Site). The QCP is intended for use as an appendix to the Soil and Groundwater Management Plan (SGWMP) prepared for the Site. The SGWMP specifies the procedures and protocols to be followed for the management of soil, water and other waste materials that may be generated at the Site.

Characterization of materials is a key task of the SGWMP. All materials generated during remediation and development activities at the Former NFD Point Molate containing suspected contamination must be properly characterized to determine the appropriate management and disposal option for the material. The elements described in this plan include activities conducted in the field as well as procedures to be conducted by the laboratory to ensure proper QC of the analytical results.

# 2.0 FIELD QUALITY CONTROL

Field QC samples should be collected and analyzed to assess the consistency and performance of the sampling.

The following types of QC samples may be required during sampling:

- Field duplicates;
- Equipment rinsate blanks;
- Trip blanks; and,
- Source blanks.

## 2.1 QC Sample Frequency

Equipment rinsate blanks and source blanks will be required at the frequency specified if sampling equipment requires decontamination between sampling locations. The laboratory will analyze all QC samples in accordance with the analytical method at the method-required frequency. All QC samples will be analyzed for the same parameters as the primary samples except trip blanks which will only be analyzed for volatile organic compounds (VOCs). The frequency of QC samples to be collected is provided below:

| Type of Quality Control | Sample Frequency |
|---|---|
| Field Duplicates | 1 per 10 primary samples |
| Equipment Rinsate Blanks | 1 per day per sampling event |
| Trip Blanks | 1 per cooler containing samples to be analyzed for VOCs |
| Source blanks | 1 sample of water used as the final rinse in the decontamination process per sampling event |
| Temperature Blanks | 1 per cooler |

## 2.2 Field Duplicates

Filed duplicates consist of two samples (an original and a duplicate) of the same matrix, which are collected, to the extent possible, at the same time and location, using the same sampling techniques (as described in the Sampling Analysis Plan [SAP]). The purpose of the field duplicate sample is to evaluate the precision of the overall sample collection and analysis process. Field duplicates should be collected at a frequency of one per 20 samples (of the same matrix) and should be analyzed for the same analyses as the original sample. Field duplicate samples are not required for waste characterization samples.

## 2.3 Equipment Rinsate Blanks

When non-dedicated sampling equipment is used, the effectiveness of cleaning and decontamination procedures should be verified by collecting and analyzing equipment blanks.

After cleaning, equipment blanks are prepared by filling the sampling device with deionized or distilled water and then emptying this water into sample containers. Equipment blanks should be handled and analyzed in the same manner as other samples being collected (refer to the SAP for proper sample handling and analysis). An equipment rinsate blank will be prepared and submitted for analysis at a minimum frequency of one per sampling technique per sampling event and additionally whenever there are changes in the sample collection procedures, sampling decontamination procedures, or sampling equipment. If all equipment used at a sampling location is disposable then an equipment rinsate blank will not be required.

## 2.4 Trip Blanks

A trip blank consists of target analyte-free water provided by the laboratory. The trip blank is a sealed container that accompanies the samples from collection through shipment. This QC sample serves as a check for cross-contamination of VOCs. Trip blanks will be submitted to the laboratory at a frequency of one per cooler (for VOC analysis only) for those coolers containing aqueous samples to be analyzed for VOCs.

## 2.5 Source Blank

A source blank consists of target analyte-free water provided by the laboratory or deionized water used by sampling personnel for equipment decontamination. The analyte-free water is placed into an appropriately preserved sampling container, and analyzed for the same parameters as the water samples. This QC sample serves as a check on reagents (preservatives) and the cleanliness of the water used for decontamination. One source blank will be prepared and submitted for each lot number of deionized (or ASTM Type II) water used during Site-wide monitoring. If all equipment used at a sampling location is disposable then a source blank will not be required.

## 2.6 Temperature Blanks

A temperature blank consists of a sealed volatile organic analysis vial filled with water that accompanies the samples during shipment. This QC sample serves as a check of adequate cooling of the samples to be analyzed. Temperature blanks will be submitted to the laboratory at a frequency of one per cooler, if requested by the laboratory.

# 3.0 LABORATORY QUALITY CONTROL

Laboratory QC checks are used to provide indications of the state of control that prevailed at the time of sample analysis. QC checks that involve field samples, such as matrix and surrogate spikes and field duplicates, also provide an indication of the presence of matrix effects. Field-originated blanks provide a way to monitor for potential contamination to which field samples are subjected.

QC samples include laboratory duplicates, laboratory blanks, matrix spike/matrix spike duplicates (MS/MSDs), and laboratory control sample/laboratory control sample duplicates (LCS/LCSDs), as applicable, and other method-required QC samples. Each type of laboratory-based QC sample will be analyzed at a rate of 5% or one per batch (a batch is a group of up to 20 samples analyzed together) whichever is more frequent. Each preparation or analytical batch should be identified in such a way as to be able to associate environmental samples with the appropriate laboratory QC samples. Results will be included in the QC package.

## 3.1 Method Blank

Method blanks are used to monitor each preparation or analytical batch for interference and/ or contamination from glassware, reagents, and other potential contaminant sources within the laboratory. A method blank is analyte-free matrix (laboratory reagent water for aqueous samples or Ottawa sand for soil samples) to which all reagents are added in the same amount or proportions as are added to samples. It is processed through the entire sample preparation and analytical procedures along with the samples in the batch. There should be at least one method blank per preparation or analytical batch. If a target analyte is found at a concentration that exceeds the reporting limit, corrective action must be performed to identify and eliminate the contamination source. All associated samples must be re-prepared and/ or reanalyzed after the contamination source has been eliminated. No analytical data may be corrected for the concentration found in the blank.

## 3.2 Laboratory Control Sample

The laboratory control sample (LCS) will consist of analyte-free matrix (laboratory reagent water for aqueous samples or Ottawa sand for soil samples) spiked with known amounts of analytes that come from a source different than that used for calibration standards. Target analytes will be spiked into the LCS. The spike levels should be less than or equal to the mid- point of the calibration range. If LCS results are outside the specified control limits, corrective action must be taken, including sample re-preparation and/ or reanalysis, if appropriate. If more than one LCS is analyzed in a preparation or analytical batch, the results of all the LCSs must be reported.

## 3.3 Surrogates

Surrogates are organic analytes that behave similarly as the analytes of interest, but are not expected to occur naturally in the samples. They are spiked into the standards, and into the

samples and QC samples prior to sample preparation. Recoveries of surrogates are used as an indicator of accuracy, method performance, and extraction efficiency. If surrogate recoveries are outside the specified control limits, corrective action must be taken, including sample re-preparation and/ or reanalysis, if appropriate.

## 3.4 Matrix Spike and Matrix Spike Duplicate Samples

A MS/MSD consist of duplicate field sample aliquots spiked by the laboratory with analytes of concern to evaluate the effects of the matrix on the recoveries of these analytes. For every 20 field samples of each matrix collected from each site, additional duplicate aliquots of one of the samples should be collected for each analysis and designated on the chain of custody for use as MS/MSD by the laboratory. The duplicate aliquots for MS/MSD analyses should be collected simultaneously or in immediate succession with the parent sample.

## 3.5 Internal Standards

Some methods require the use of internal standards to compensate for losses during injection or purging or losses due to viscosity effects. Internal standards are compounds that have similar properties as the analytes of interest, but are not expected to occur naturally in the samples. A measured amount of the internal standard is added to the standards, and to the samples and QC samples following preparation. When the internal standard results are outside the control limits, corrective action must be taken, including sample reanalysis, if appropriate.

## 3.6 Interference Check Samples

The interference check samples (ICS) are used in inductively-coupled plasma analyses to verify background and inter-element correction factors. They consist of two solutions, A and AB. Solution A contains the interfering analytes, and Solution AB contains both the analytes of interest and the interfering analytes. Both solutions are analyzed at the beginning and at the end of each analytical sequence. When the ICS results are outside the control limits, corrective action must be taken, including sample reanalysis, if appropriate.

## 3.7 Retention Time Windows

Retention time windows for gas and liquid chromatographic analyses must be established by replicate injections of the calibration standard over multiple days, as described in the appropriate laboratory standard operating procedure. The absolute retention time of the calibration verification standard at the start of each analytical sequence will be used as the centerline of the window. In order for an analyte to be reported as positive, its retention time must be within the window.

## 3.8 Holding Time

The holding time requirements specified in the SAP must be met. For methods requiring both sample preparation and analysis, the preparation holding time will be calculated from the time of sampling to the completion of preparation. The analysis holding time will be calculated from the time of completion of preparation to the time of completion of the analysis, including any required dilutions, confirmation analysis, and reanalysis. For methods requiring analysis only, the holding time is calculated from the time of sampling to completion of the analysis, including any required dilutions, confirmation analysis, and reanalysis.

## 3.9 Confirmation

Confirmation analysis must be carried out as specified for specific methods when the result is above the reporting limit. The result designated as the primary result will be reported. All calibration and QC requirements must be met when confirmation analysis is performed.

## 3.10 Cleanup Procedures to Minimize Matrix Effects

In order to maintain the lowest possible reporting limits, appropriate cleanup procedures should be employed when necessary. Methods for sample cleanup include, but are not limited to, gel permeation chromatography (GPC), silica gel, alumna, florisil, mercury (sulfur removal), sulfuric acid and acid/base partitioning. Method blanks, MS/MSDs, and laboratory control samples must be subjected to the same cleanup procedures performed on the samples to monitor the efficiencies of these procedures.

## 3.11 Sample Dilution

Dilution of a sample results in elevated reporting limits and ultimately affects the usability of the data related to potential actions at the sampling site. It is important to minimize dilutions and maintain the lowest possible reporting limits. When dilutions are necessary due to high concentrations of target analytes, lesser dilutions should also be reported in order to fully characterize the sample for each analyte. The level of the lesser dilution should be such that it will provide the lowest possible reporting limits without having a lasting deleterious effect on the analytical instrumentation.

# 4.0 DATA MANAGEMENT

## 4.1 Laboratory Data Management

Data reduction will be performed manually or using appropriate application software. Quantitation procedures specified for each method must be followed. If data reduction is performed manually, the documentation must include the formulas used. Any application software used for data reduction must have been previously checked for accuracy. Documentation on the software must be maintained on file in the laboratory. All documentation of data reduction must allow re-creation of the calculations.

All data will undergo two levels of review at the laboratory prior to release. The analyst performing the tests shall initially review 100 percent of the data. After the analyst's review has been completed, 100 percent of the data shall be reviewed independently by a senior analyst or by the section supervisor for accuracy, compliance with calibration and QC requirements, holding time compliance, and for completeness. Analyte identification and quantitation must be verified. Calibration and QC results will be compared with the applicable control limits. Reporting limits should be reviewed to make sure they meet the project objective. Results of multiple dilutions should be reviewed for consistency. Any discrepancies must be resolved and corrected. Laboratory qualifiers will be applied when there are non-conformances that could potentially affect data usability. These qualifiers must be properly defined as part of the deliverables. All issues that are relevant to the quality of the data must be addressed in a case narrative. A final data review will be conducted by the laboratory manager or client services representative to ensure that all required analyses were performed on all samples and that all documentation is complete.

The hard copy and electronic laboratory reports for all samples and analyses will contain the information necessary to perform data evaluation.

Hardcopy deliverables in US Environmental Protection Agency (EPA) Contract Laboratory Program type summary format will be required. The following information (when applicable) will be included for each analytical batch as a minimum:

- Field identification number
- Date received
- Date prepared
- Date analyzed
- Method
- Result for each analyte (wet weight basis for soils)

- Sample-specific reporting limit
- Units
- Laboratory qualifier flags and definitions
- Confirmation results
- Narrative
- Surrogate percent recoveries
- MS/MSD and laboratory control sample spike concentrations, native sample results, spiked sample results, percent recoveries, and relative percent differences between the MS and MSD results
- Method results
- Calibration blank results for inorganic analyses (required in hardcopy format only)
- ICS true and measured concentrations and percent recoveries (required in hardcopy format only)
- Method of standard addition results (if applicable; required in hardcopy format only)
- Post-digestion spike recoveries (if applicable; required in hardcopy format only)
- Any other method-specific QC sample results
- Initial calibration summary, including standard concentrations, response factors, average response factors, and relative standard deviations, or correlation coefficients, if applicable (required in hardcopy format only)
- Continuing calibration verification summary, including expected and recovered concentrations, and percent differences (required in hardcopy format only)
- Analytical batch reference number

Within 21 calendar days of sample receipt, the laboratory shall deliver three hardcopy sets of documentation as specified in this document. In addition the laboratory shall deliver one electronic copy of the data via email in ASCII format.

All electronic data files shall match the final hardcopy results.

All raw data will be maintained on file in the laboratory and will be available upon request by the project management. Complete documentation of sample preparation and analysis and associated QC information will be maintained in a manner that allows easy retrieval in the event

that additional validation or information is required. All documentation must be retained for a minimum of 10 years after data acquisition.

The primary responsibility for the implementation of these procedures within the laboratory will reside with the laboratory manager or equivalent. The laboratory manager will approve laboratory reports before transferring the information to the client.

## 4.2 Data Validation

The analytical results should be validated. A project chemist should be identified who will have responsibility for oversight of the data validation effort. Data validation will be carried out when the data packages are received from the laboratory. It will be performed on an analytical batch basis using the summary results of calibration and laboratory QC, as well as those of the associated field samples. Data validation procedures will include:

- Review of the data package for completeness.
- Review of chain of custody records for discrepancies that might impact data quality.
- Review for compliance with holding time and QC frequency requirements.
- Qualification of the data using appropriate qualifier flags, as necessary, to reflect data usability limitations.
- Initiation of corrective actions, as necessary, based on the data review findings.

Qualifier flags, if required, will be applied to the electronic sample results. The flagging criteria in Tables 1 and 2 will be used. The qualifier flags are defined in Table 3. If multiple flags are required for a result, the most severe flag will be applied to the electronic result. The hierarchy of flags from the most severe to the least severe will be as follows: R, UJ, U, J. A validation report will be generated for each method and sample delivery group. A copy of the validation report will be submitted to the project management, and a copy will be retained with the data package in the project file. Any significant data quality problems will be brought to the attention of the project chemist.

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**TABLE 1**
**Flagging Conventions for Organic Methods**
Former NFD Point Molate
Richmond, California

| Quality Control Check | Evaluation | Flag | Samples Affected |
|---|---|---|---|
| Holding Time | Holding time exceeded for extraction or analysis | J positive results; UJ non-detects | Sample |
| | Holding time exceeded by a factor of two | J positive results; R non-detects | Sample |
| Sample Preservation SW8260B | Sample not preserved | J positive results; UJ non-detects | Sample |
| Sample Integrity SW8260B | Bubbles in VOA vial used for analysis | J positive hits ; UJ non-detects | Sample |
| Temperature | > 6°C | J positive results ; UJ non-detects | All samples in same cooler |
| Initial Calibration | RRF <0.050 (SW8260B and SW8270C) | J positive results, R non-detects | All associated samples in analysis batch |
| | %RSD >30.0% (SW8260B and SW8270C), or>20% (SW8015B, SW8081A, and SW8082 AND calibration curve not used; OR calibration curve used, but with coefficient of correlation or determination < 0.99 | J positive results, UJ non-detects | All associated samples in analysis batch |
| Calibration Verification (Second-source and CCV) | RRF < 0.050 (SW8260B and SW8270C) | J positive results, R non-detects | All associated samples in analysis batch |
| | %Drift > 25.0% (SW8260B and SW8270C) or> 15% (SW8015B, | J positive results, UJ non-detects | All associated samples in analysis batch |

**TABLE 1**
**Flagging Conventions for Organic Methods**
Former NFD Point Molate
Richmond, California

| Quality Control Check | Evaluation | Flag | Samples Affected |
|---|---|---|---|
| | SW8081A and SW8082) | | |
| LCS | %R>UT | J positive results | All samples in preparation batch |
| | %R<LT | J positive results, UJ non-detects | All samples in preparation batch |
| Calibration Blank<br>Method Blank | Convert blank concentration to soil units, if applicable; multiply the highest blank concentration by 5 (by 10 for common lab contaminants, acetone, methylene chloride, MIBK, phthalates) | U positive sample results < 5x (1Ox for common lab contaminants) highest blank concentration | All samples in preparation batch or analytical batch, whichever one applies, associated with method blank or calibration blank. |
| Equipment Blank | | | All samples, same site, matrix and date (water) or all samples, same site, matrix (soil) associated with equipment blank. |
| Trip Blank | | | All samples shipped in the same cooler as the trip blank. |
| Matrix Spikes<br>% Recoveries | %R>UT<br>%R<LT | J positive results<br>J positive results, UJ non-detects | Matrix spike analytes in parent sample and field duplicate, if any. |

**TABLE 1**
**Flagging Conventions for Organic Methods**
Former NFD Point Molate
Richmond, California

| Quality Control Check | Evaluation | Flag | Samples Affected |
|---|---|---|---|
| RPDs | RPD > UT | J positive results | Matrix spike analytes in parent sample and field duplicate, if any. |
| Surrogates<br>SW8260B | %R>UT<br>%R < LTand none< 10%<br>%R < 10% | J positive results<br>J positive results; UJ non-detects<br>J positive results; R non-detects | All analytes in samples |
| SW8270C | 2 or more surrogates in same fraction with %R > UT<br>2 or more surrogates in same fraction with %R < LT but not <10%<br>2 or more surrogates in same fraction with %R < LT and <10% | J positive results<br>J positive results; UJ non-detects<br>J positive results; R non-detects | All analytes in same fraction in sample |
| SW8015B; SW8081A; SW8082 | More than 1 surrogate with %R > UT<br>More than 1 surrogate with %R < LT but not <10%<br>More than 1 surrogate with %R < LT and <10% | J positive results<br>J positive results; UJ non-detects<br>J positive results; R non-detects | All analytes in sample |
| Internal Standards | Area >UT<br>Area <LT but not <10%<br>Area <10% | J positive results<br>J positive results; UJ non-detects<br>J positive results; R non-detects | Associated analytes in sample |
| Confirmation (SWB081A) | RPD between primary and confirmation results >25% | J positive results | Sample |

**TABLE 1**
**Flagging Conventions for Organic Methods**
Former NFD Point Molate
Richmond, California
Notes:
Organic Methods include: SW8081A, SWB082, SW8260B, and SW8270C.
Spike recovery limits do not apply when sample concentration exceeds the spike concentration by a factor of 4 or more.
For methods requiring confirmation, the qualification s applies to primary analysis results (either of the two columns/detectors may be designated as the primary column/detector).
Where one MS recovery meets acceptance criteria and the other MS of the pair does not, professional judgment may be used to determine if the parent sample should be qualified for matrix effects by comparing the matrix spike recoveries to other quality control results within the batch or sample site.
Qualifier may not apply in cases where a surrogate coelutes with a non-target analyte.
For SW8081A and SW8082 it is assumed that two surrogates are used. If only one is used, that surrogate must pass the acceptance criteria, otherwise flags will be applied.
Qualifier may not apply in cases where low surrogate recoveries are due to sample dilution.

LT = Lower tolerance.
MB = Method blank.
UT = Upper tolerance.
%R =Percent recovery.
RRF = Relative response factor.
RSD = Relative response factor.
RPD = Relative percent difference.

**TABLE 2**
**Flagging Conventions for Inorganic Methods**
Former NFD Point Molate
Richmond, California

| Quality Control Check | Evaluation | Flag | Samples Affected |
|---|---|---|---|
| Holding Time | Holding time exceeded for extraction, digestion, or analysis | J positive results; UJ non-detects | Sample |
| | Holding time for digestion or analysis exceeded by a factor of two | J positive results; R non-detects | Sample |
| Sample Preservation | Sample preservation requirements not met (if sample preservation was not done in the field, but was performed at the laboratory upon sample receipt, no flagging is required) | J positive results; R non-detects | Sample |
| Temperature | > 6°C | J positive results ; UJ non-detects | All samples in same cooler |
| Initial Calibration (multi-point only) | Correlation coefficient ≤ 0.995 | J positive results, UJ non-detects | All associated samples in analysis batch |
| Calibration verification (ICV, CCV) | %R>UT | J positive results | All associated samples in analysis batch |
| | %R<LT | J positive results, UJ non-detects | All associated samples in analysis batch |
| Interference check sample (SW6010B only) | %R>UT | J positive results | All associated samples in analysis batch |
| | %R<LT | J positive results, UJ non-detects | All associated samples in analysis batch |
| LCS | %R>UT | J positive results | All samples in preparation |

**TABLE 2**
**Flagging Conventions for Inorganic Methods**
Former NFD Point Molate
Richmond, California

| Quality Control Check | Evaluation | Flag | Samples Affected |
|---|---|---|---|
| | | | batch |
| | %R<LT | J positive results, UJ non-detects | All samples in preparation batch |
| Calibration Blank (ICB, CCB) Method Blank | Convert blank concentration to soil units, if applicable; multiply the highest blank concentration by 5 | U positive sample results < 5x highest blank concentration | All samples in preparation batch or analytical batch, whichever one applies, associated with method blank or calibration blank. |
| Equipment Blank | | | All samples, same site, matrix and date (water) or all samples, same site, matrix (soil) associated with equipment blank. |
| Trip Blank | | | All samples shipped in the same cooler as the trip blank. |
| Matrix Spikes<br>% Recoveries | %R>UT<br>%R<LT | J positive results<br>J positive results, UJ non-detects | Matrix spike analytes in parent sample and field duplicate, if any. |
| RPDs | RPD > UT | J positive results | Matrix spike analytes in parent sample and field duplicate, if any. |

**TABLE 2**
**Flagging Conventions for Inorganic Methods**
Former NFD Point Molate
Richmond, California

| Quality Control Check | Evaluation | Flag | Samples Affected |
|---|---|---|---|
| Dilution Test | If concentration is >25 times RL and % difference>UT | J positive results; UJ non-detects | All samples from same site as parent sample if analytical spike not performed |
| Post-digestion Spikes/Recovery Test | Spike results indicate performance of MSA required, but MSA not done.<br>%R >UT<br>%R <LT | <br>J positive results<br>J positive results; UJ non-detects | All samples in digestion batch if MSA not performed |
| MSA (GFAA only) for samples where post-digestion spike (performed as a result of unacceptable serial dilution) failes | r<0.995 | J positive results | Sample |

Notes:
Spike recovery limits do not apply when sample concentration exceeds the spike concentration by a factor of 4 or more.

CCB = Continuing calibration blank
ICB = Initial calibration blank
LT = Lower tolerance
MB = Method blank
UT = Upper tolerance
RL = Reporting limit
CCV = Continuing calibration verification
ICV = Initial calibration verification
MSA = Method of standard addition
RPD = Relative percent difference
%R =Percent recovery
MDL = method detection limit

**TABLE 3**
**DATA QUALIFIER FLAG DEFINITIONS**
NFD Point Molate
Richmond, California

| Data Qualifier Flag | Definition |
|---|---|
| J | Analyte was present, but reported value may not be accurate or precise |
| R | This result has been rejected |
| U | This analyte was analyzed for but not detected at the specified detection limit |
| UJ | The analyte was not detected above the detection limit objective. However, the reported detection limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |

# APPENDIX E
HISTORICAL AERIAL PHOTOGRAPHS

**Pt Molate**

330 25th Street

Richmond, CA 94801

Inquiry Number: 5740188.11

August 06, 2019

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

08/06/19

**Site Name:**

Pt Molate
330 25th Street
Richmond, CA 94801
EDR Inquiry # 5740188.11

**Client Name:**

Terraphase Engineering Inc.
1404 Franklin Street Suite 600
Oakland, CA 94612-0000
Contact: Wendy Bellah

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| Year | Scale | Details | Source |
|---|---|---|---|
| 2016 | 1"=875' | Flight Year: 2016 | USDA/NAIP |
| 2012 | 1"=875' | Flight Year: 2012 | USDA/NAIP |
| 2009 | 1"=875' | Flight Year: 2009 | USDA/NAIP |
| 2005 | 1"=875' | Flight Year: 2005 | USDA/NAIP |
| 1998 | 1"=875' | Flight Date: August 29, 1998 | USDA |
| 1993 | 1"=875' | Acquisition Date: July 10, 1993 | USGS/DOQQ |
| 1982 | 1"=875' | Flight Date: August 16, 1982 | USDA |
| 1974 | 1"=875' | Flight Date: October 14, 1974 | USGS |
| 1968 | 1"=875' | Flight Date: April 18, 1968 | USGS |
| 1963 | 1"=875' | Flight Date: June 23, 1963 | EDR Proprietary Aerial Viewpoint |
| 1958 | 1"=875' | Flight Date: July 25, 1958 | USGS |
| 1953 | 1"=875' | Flight Date: February 27, 1953 | USDA |
| 1946 | 1"=875' | Flight Date: September 06, 1946 | USGS |
| 1939 | 1"=875' | Flight Date: August 04, 1939 | USDA |

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**


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INQUIRY #: 5740188.11
YEAR: 2016
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 2012
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 2009
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 2005
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 1998
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 1993
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 1982
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 1974
= 875'
N
EDR

INQUIRY #: 5740188.11
YEAR: 1968
= 875'
N
EDR

INQUIRY #: 5740188.11

YEAR: 1963

= 875'

N

EDR

INQUIRY #: 5740188.11
YEAR: 1958
= 875'
N
EDR

INQUIRY #: 5740188.11

YEAR: 1953

= 875'

N

EDR

INQUIRY #: 5740188.11
YEAR: 1946
= 875'
N
EDR

INQUIRY #: 5740188.11

YEAR: 1939

= 875'

N

EDR

## APPENDIX F
CITY DIRECTORY ABSTRACT

**Pt Molate**
330 25th Street
Richmond, CA 94801

Inquiry Number: 5740188.5
August 23, 2019

# The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

## RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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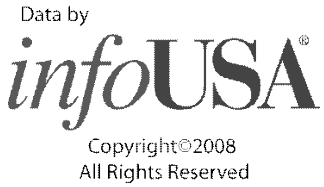


## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| Year | Target Street | Cross Street | Source |
|---|---|---|---|
| 2014 | ☑ | ☑ | EDR Digital Archive |
| 2010 | ☑ | ☑ | EDR Digital Archive |
| 2005 | ☑ | ☑ | EDR Digital Archive |
| 2000 | ☑ | ☑ | EDR Digital Archive |
| 1995 | ☑ | ☑ | EDR Digital Archive |
| 1992 | ☑ | ☑ | EDR Digital Archive |
| 1985 | ☑ | ☑ | Haines Criss-Cross Directory |
| 1980 | ☑ | ☑ | Haines Criss-Cross Directory |
| 1975 | ☑ | ☑ | Haines Criss-Cross Directory |

# FINDINGS

## TARGET PROPERTY STREET

330 25th Street
Richmond, CA 94801

| *Year* | *CD Image* | *Source* |
|---|---|---|
| **25TH ST** | | |
| 2014 | pg A2 | EDR Digital Archive |
| 2010 | pg A7 | EDR Digital Archive |
| 2005 | pg A12 | EDR Digital Archive |
| 2000 | pg A17 | EDR Digital Archive |
| 1995 | pg A21 | EDR Digital Archive |
| 1992 | pg A25 | EDR Digital Archive |
| 1985 | pg A28 | Haines Criss-Cross Directory |
| 1985 | pg A29 | Haines Criss-Cross Directory |
| 1980 | pg A32 | Haines Criss-Cross Directory |
| 1980 | pg A33 | Haines Criss-Cross Directory |
| 1975 | pg A35 | Haines Criss-Cross Directory |
| 1975 | pg A36 | Haines Criss-Cross Directory |

# FINDINGS

## CROSS STREETS

| *Year* | *CD Image* | *Source* |
|---|---|---|
| **WESTERN DR** | | |
| 2014 | pg. A4 | EDR Digital Archive |
| 2010 | pg. A9 | EDR Digital Archive |
| 2005 | pg. A14 | EDR Digital Archive |
| 2000 | pg. A18 | EDR Digital Archive |
| 1995 | pg. A23 | EDR Digital Archive |
| 1992 | pg. A26 | EDR Digital Archive |
| 1985 | pg. A30 | Haines Criss-Cross Directory |
| 1985 | pg. A31 | Haines Criss-Cross Directory |
| 1980 | pg. A34 | Haines Criss-Cross Directory |
| 1975 | pg. A37 | Haines Criss-Cross Directory |

# City Directory Images

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## 25TH ST 2014

| | |
|---|---|
| 122 | QUEZADA, JOSE J |
| 173 | RIOS, ERNESTINA E |
| 181 | PARISH, DWAYNE O |
| 185 | COLLINS, REBA R |
| 187 | TOLBERT, TEJUANYA O |
| 216 | VARGAS, JUNIOR |
| 217 | MOLINA, MARLENE |
| 220 | ASIAN PACIFIC ENVMTL NETWRK |
| | RIVAS, ROY |
| 223 | B & G MEDICAL ANSWERING SVC |
| | LASLIE JAMES SHERMAN LAW |
| | LAW GROUP PHE TERRELL |
| | TERREL LAW GROUP |
| 232 | PRINCE, WILLIE C |
| 236 | RAMIREZ-BARRERA, PEDRO |
| 237 | NANCY BURKE |
| | WEATHERLY JUDITH |
| 242 | HEREDIA, CAROLIN |
| | LAYTON, CAROLANN |
| 243 | SANCHEZ, SERGIO O |
| 249 | OCCUPANT UNKNOWN, |
| 250 | NELUM, MONICA L |
| 256 | GUZMAN, SEBASTIAN |
| | HURBERT, KORY |
| | RODRIGUEZ, CARLOS |
| 315 | ACEVES, JOSE |
| | DANIELS, MALIK |
| | LABELLE, COURTNEY |
| | RUBIO, YISELL |
| 330 | RICHMOND CITY OF |
| | RICHMOND HOUSING AUTHORITY |
| 516 | ISA, ADIL S |
| 518 | OCCUPANT UNKNOWN, |
| 520 | HERNANDEZ, PEDRO |
| 522 | OCCUPANT UNKNOWN, |
| 526 | XU, WEI |
| 534 | ALEJANDRE, JAIME |
| 540 | MOORE, JOHN L |
| 544 | VALENTIN, JUAN M |
| 545 | CERDA, DELMAR |
| 555 | GREEN, FELIEACE Y |
| 560 | BESSIE, SCOTT |
| | PHILADELPHIA MULTI CULTURAL MI |
| | TWO LODGES OF SUN PRODUCTIONS |
| 561 | BAROCIO, NORMA S |
| 566 | GRAVES, BILLY M |
| 567 | HARTWELL, VELMA J |
| 570 | JAXS MALE APPAREL |
| | RANDLE, VALERIE D |
| 571 | BATISTE, DAVID D |

## 25TH ST 2014 (Cont'd)

574 OCCUPANT UNKNOWN,
575 LE, VAN P
578 GRAVES, BILL M
579 EDWARDS, LELIA M
604 OCCUPANT UNKNOWN,
608 OCCUPANT UNKNOWN,
611 ROBERTS, YOLANDA Y
614 OCCUPANT UNKNOWN,
615 GARCIA, RICARDO J
617 SOSA, BALMORE A
620 HARRIS, STEVE M
621 OCCUPANT UNKNOWN,
625 CHAVEZ, JUVENCIO S
626 MOURA, ANTONIO G
627 PENA, SUZANNE L
628 ARREDONDO, MARTHA
630 HODGSON, GEORGE W
631 URTIZ, SONIA
633 VARGAS, ERNESTO E
634 BLACKMON, DIANE P
637 HANLEY, THOMAS A
638 OCCUPANT UNKNOWN,
647 ROGERS, CODY L
656 MCCRICKARD, JESSICA
660 OCCUPANT UNKNOWN,
700 ROBINSON, ROSA M
710 STEPHENSON, ROBERT E
714 OSORNIA, FABIAN
1421 JOHN PERRY

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | EDR Digital Archive |

# WESTERN DR 2014

| | |
|---|---|
| 8 | AFTEL, CHLOE |
| 40 | DARK HORSE TRADING COMPANY |
| | WASHBURN, KENNETH |
| 43 | CRAINE, ROGER |
| 48 | TANNOR, SHIRA |
| 50 | OCCUPANT UNKNOWN, |
| 51 | HERRON, EP P |
| 55 | SHEA, JOHN J |
| 111 | EIDE, CATHEY R |
| 125 | RICHARDSON, JERRY M |
| 128 | SCHAEFER, STEPHEN C |
| 204 | COLES, INDRA |
| 212 | EVANS, JEB B |
| 215 | NANCY FOSS |
| | RIGNEY STUDIO |
| | RIGNEY, RICHARD N |
| 216 | DU MOULIN GENERAL CONTRAC |
| | OCCUPANT UNKNOWN, |
| 225 | DIAMOND, LISA |
| 230 | JNS CONSULTANTS |
| | SWETT, JONATHAN N |
| 240 | BATTS, RICHARD E |
| 248 | ADACHI, DAVID R |
| | CATHERINE ADACHI PT |
| 251 | TARR, WAYNE P |
| 257 | ROSE, DONALD |
| 265 | NEEL, GEORGE R |
| 266 | FOSTIAK, PETER S |
| 269 | CANAL PARTNERS LLC |
| | LETTKO, JOHN C |
| 279 | OCCUPANT UNKNOWN, |
| 307 | VAUGHAN JESSICA |
| | VAUGHAN, MOSES |
| 317 | BUXTON, CRAIG P |
| | MENAY LLC |
| 318 | OCCUPANT UNKNOWN, |
| 320 | PAQUETTE, JAMES P |
| 323 | PAPPENHEIMER, KIT S |
| 331 | BROOKS, WALTER T |
| 339 | SPENCER, CHRISTOPHER J |
| 348 | OCCUPANT UNKNOWN, |
| 360 | OCCUPANT UNKNOWN, |
| 367 | KOWALSKI, STEPHEN M |
| | TIMES GALLERY AND WORKSHOP INC |
| 377 | OCCUPANT UNKNOWN, |
| 380 | KEEFE, GERALD J |
| 385 | OBRIEN, CHRISTOPHER E |
| 387 | MEEK, BEN E |
| 393 | BURDICK, ROBERT R |
| 394 | DENNIS RYDGREN |

## WESTERN DR 2014 (Cont'd)

394 RYDGREN, DENNIS M
399 OCCUPANT UNKNOWN,
400 RINE, JASPER D
401 BIREN, RICHARD F
408 WAINSCOTT, JOHN C
411 MCNAIR CONSTRUCTION
MCNAIR, MARTIN B
POINT RCHMOND GTWY FNDTION INC
420 WOODRUFF, MICHELLE L
421 JANES, DAVID B
427 GIORDANO, RICHARD J
430 OCCUPANT UNKNOWN,
440 MOUNTCASTLE, JANE C
441 SPARKS, OLENE P
457 LANGILLE, EUGENE G
469 VIVIAN, FEYER
470 LIZARRAGA, JOHN F
471 FITZGERALD, JOHN P
474 GREENE, LUTHER M
LUTHER GREENE PRODUCTIONS
475 FANG, J
480 SNOW, LUCY
483 GREINER, LEO C
484 CHIU, DANIEL T
487 CONDIOTTI, EDWARD M
EAST BAY BUSINESS SERVICES INC
FOB TOURING INC
OPERATION JAM INC
S C PROPERTY DEVELOPMENT
488 BEAK, ADAM J
JEFF LUDWIG ENTERPRISES LLC
490 BLUHON, PAUL L
494 C SQUARED BUILDERS INC
OLIVER, CHRISTIAN L
495 STEVENSON, ALAN
500 KING, DAVID F
514 KISKADDON, GEORGE L
517 LIZARRAGA, MARIANO H
521 WILSON, PAM K
527 YIP, TIMOTHY H
529 GOETTSCHE, CHARLES
535 MEYER, JOHN E
543 MARKARIA, GILDA B
611 KRAMER, EVE T
TOSTENSON RON CONSTRUCTION
615 DANSUN DESIGNS
DOELLSTEDT, WERNER E
616 MARTIN, AVITAL S
622 CORRADO, ALFRED
625 KNOWLES, THOMAS C

# WESTERN DR 2014 (Cont'd)

| | |
| --- | --- |
| 628 | ULTSCH, BRUCE H |
| 631 | DESTAEBLER, JORDAN L |
| 632 | LATHAM, BROCK D |
| 641 | SMITH, DAVID B |
| 645 | OSTRANDER, KATHARYN E |
| 646 | OCCUPANT UNKNOWN, |
| 706 | SILVA, HORACIO K |
| 707 | BREUNER, DONALD J |
| | TALEWIND MEDIA |
| 714 | EAKLE, KIT |
| 717 | DANIELS, DOUGLAS L |
| 723 | GIBNEY, CHRISTOPHER J |
| 747 | EAST BAY YOUTH BASEBALL ASSN |
| | ELLIOTT, SAMUEL T |
| 754 | NERO, ALFORD |
| 755 | MOORE, KYLE A |
| 757 | LISTON, BRIAN T |
| 765 | GOSHAY, ROBERT C |
| 771 | BINTINGER, DAVID L |
| 778 | DOUGLAS, GRAY |
| 800 | MCCORMACK, FRANCIS J |
| | SOMATIC LEARNING |
| 808 | RYAN, KINGSTON |
| 961 | SAN RAFAEL ROCK QUARRY INC |
| 999 | AGRA FOUNDATIONS |
| 1900 | FAST LANE INC |
| | SAN PABLO BAY SPORTSMAN CLUB |
| | YACHT HARBOR |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## 25TH ST 2010

| | |
|---|---|
| 122 | QUEZADA, JOSE J |
| 132 | SMITH, TERRY |
| 173 | YAN YUN YU XU CHENG MA |
| 175 | XIAO, MA A |
| 181 | PARISH, DWAYNE |
| | WONG, WYMAN |
| 185 | HARRIS, JAMES |
| 187 | COY, SCOTT |
| 216 | VARGAS, CHAVEZ J |
| 217 | MOLINA, MARLENE |
| 220 | ASIAN PACIFIC ENVMTL NETWRK |
| | CASTILLO, KAREN |
| 223 | LAW GROUP PHE TERRELL |
| 232 | PRINCE, WILLIE C |
| 236 | FUENTES, EVERTH N |
| 237 | NANCY BURKE |
| | WEATHERLY JUDITH |
| 240 | SCOTT, ALISHA |
| 242 | HOFFMAN, SHIRLEY |
| 243 | OCCUPANT UNKNOWN, |
| 249 | HARDIN, LAWRENCE |
| 250 | VIZCARRA, SERGIO |
| 256 | HERBERT, CHEYENNE |
| | HURBERT, KORY |
| 315 | BARNES, DEANDRE |
| | CHAVEZ, VERONICA |
| | GAINES, LASHAWN |
| | PAYSINGER, A |
| | RUBIO, YISELL |
| | SMITH, HAROLD S |
| | SOLIS, ENRIQUE |
| 330 | RICHMOND CITY OF |
| | RICHMOND HOUSING AUTHORITY |
| 518 | HAY, WADHAH |
| 520 | ATIA, MOHAMED |
| 522 | OCCUPANT UNKNOWN, |
| 531 | CASTRO, JAVIER |
| 534 | LEDEZMA, DAVID |
| 537 | SANCHEZ, MARIA L |
| 540 | MOORE, JOHN L |
| 544 | VALENTIN, JUAN M |
| 545 | CERDA, SUK C |
| 552 | CASANOVA, RAFAEL |
| 555 | TILTON, STEPHEN S |
| 560 | PHILADELPHIA MULTI CULTURAL MI |
| | SCOTT, BESSIE S |
| | TWO LODGES OF SUN PRODUCTIONS |
| 561 | BAROCIO, NORMA S |
| 566 | SANCHEZ, JUAN M |
| 567 | HARTWELL, VELMA J |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## 25TH ST 2010 (Cont'd)

| | |
|---|---|
| 570 | TRACY, DURYEA |
| 571 | GARCIA, AMELIA |
| 574 | CHRISTENSEN, JOYCE A |
| 575 | LE, VANPHU P |
| 578 | GRAVES, MARY A |
| 579 | EDWARDS, LELIA M |
| 604 | OCCUPANT UNKNOWN, |
| 608 | OCCUPANT UNKNOWN, |
| 609 | LLOYD, GLYN D |
| 611 | ROBERTS, YOLANDA Y |
| 614 | BAY AREA PEACEKEEPERS INC |
| | DANIELA MINOR |
| 615 | BARBARA PELEG |
| | GARCIA, RICARDO J |
| | R GARCIA TRANSPORT |
| 617 | SOSA, BLANCA A |
| 620 | HARRIS, HELEN M |
| 621 | OCCUPANT UNKNOWN, |
| 625 | GUERRA, JESUS |
| 626 | MOURA, ANTONIO G |
| 627 | RIOS, ALFREDO V |
| 628 | HERNANDEZ, ABRAHAM |
| 631 | MOLINAR, RAYMOND J |
| 633 | VARGAS, PATRICIA V |
| 634 | OCCUPANT UNKNOWN, |
| 637 | HANLEY, THOMAS A |
| 638 | OCCUPANT UNKNOWN, |
| 647 | OCCUPANT UNKNOWN, |
| 656 | CINTRON, LUIS G |
| 660 | OCCUPANT UNKNOWN, |
| 700 | ROBINSON, ROSA M |
| 710 | MORA, SANTIAGO M |
| 714 | OSORNIA, FABIAN |

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | EDR Digital Archive |

## WESTERN DR 2010

| | |
|---|---|
| 8 | PETERS, MARGO S |
| | POINT GRAPHICS |
| 40 | DARK HORSE TRADING COMPANY |
| | OCCUPANT UNKNOWN, |
| 43 | CRAINE, ROGER |
| 48 | TANNOR, SHIRA |
| 50 | LEWIS, DONALD C |
| 51 | HERRON, ELLEN P |
| 55 | LEVIGNE PAMELA |
| 111 | MILLER, ROBERT A |
| 125 | OCCUPANT UNKNOWN, |
| 128 | SCHAEFER, STEPHEN C |
| 204 | OCCUPANT UNKNOWN, |
| 215 | RIGNEY STUDIO |
| | RIGNEY, RICHARD N |
| 216 | DU MOULIN GENERAL CONTRAC |
| | DUMOULIN, WILLIAM H |
| 225 | OCCUPANT UNKNOWN, |
| 230 | FIX, DAVID W |
| | JNS CONSULTANTS |
| 240 | ADACHI, MICHAEL S |
| 248 | CATHERINE ADACHI PT |
| | JACOBS, DEVI |
| 251 | OCCUPANT UNKNOWN, |
| | TARR ELIZABETH G |
| 257 | ROSE, DONALD |
| 265 | NEEL, GEORGE R |
| 266 | FOSTIAK, MARIE E |
| 269 | CANAL PARTNERS LLC |
| | FROKER, DAVE |
| 279 | OCCUPANT UNKNOWN, |
| 307 | MOSES, VAUGHAN |
| | VAUGHAN JESSICA |
| 317 | BUXTON, CRAIG P |
| | MENAY LLC |
| 318 | PERI, C A |
| 320 | CHAMBERS ARTHUR C |
| | OCCUPANT UNKNOWN, |
| 323 | ACCESS GLASS STUDIO |
| | CONSTRUCTION PAINT SVC |
| | OCCUPANT UNKNOWN, |
| 331 | BROOKS, WALTER T |
| 339 | OCCUPANT UNKNOWN, |
| 345 | OCCUPANT UNKNOWN, |
| 348 | OCCUPANT UNKNOWN, |
| 360 | OCCUPANT UNKNOWN, |
| 367 | KOWALSKI, STEPHEN M |
| 377 | BLONSKI, KENNETH S |
| 380 | KEEFE, GERALD J |
| | LEHMAN ALLISON YACHT SALES |

## WESTERN DR 2010 (Cont'd)

| | |
| --- | --- |
| 385 | OCCUPANT UNKNOWN, |
| 387 | MEEK, BEN E |
| 393 | OCCUPANT UNKNOWN, |
| 394 | RYDGREN, DENNIS M |
| 399 | OCCUPANT UNKNOWN, |
| 400 | RINE, JASPER D |
| 401 | BIREN, JACK |
| 408 | WAINSCOTT, JOHN C |
| 411 | MCNAIR CONSTRUCTION |
| | MCNAIR, MARTIN B |
| | POINT RCHMOND GTWY FNDTION INC |
| 420 | LARIMER, ROBERT A |
| 421 | JANES, DAVID B |
| 427 | GIORDANO, RICHARD J |
| 430 | MOLYNEUX, FE T |
| 440 | OKENNON, JENNA E |
| 441 | SPARKS, OLENE P |
| 457 | LANGILLE, EUGENE G |
| 469 | HALBRECHT, DANIEL |
| 470 | STALLINGS, KENLEY W |
| 471 | FITZGERALD, MICHAEL S |
| 474 | GREENE, LUTHER M |
| | MARIN INVESTORS LP |
| | MCDONALD PROPERTIES A CAL LTD |
| 475 | CHRISMAN, SAMUEL B |
| 480 | SNOW, LUCY |
| 483 | GREINER, DOUGLAS E |
| | JUDD, ELEANOR G |
| 484 | CHIU, DANIEL T |
| 487 | OCCUPANT UNKNOWN, |
| | S C PROPERTY DEVELOPMENT |
| | WHITE BIRCH ASSOCIATES LLC |
| 488 | BEAK, ADAM J |
| | JEFF LUDWIG ENTERPRISES LLC |
| 490 | BLUHON, PAUL I |
| 494 | FITZPATRICK, BERNE |
| 495 | NEIL TANNER INC |
| | TANNER, NEIL A |
| 500 | DAVID & MELANI KING |
| | KING, DAVID F |
| | WHALE CONSERVATION & RESE |
| | WHALE FUND |
| 514 | KISKADDON, GEORGE L |
| 517 | LIZARRAGA, MARIANO H |
| 521 | OCCUPANT UNKNOWN, |
| 527 | OCCUPANT UNKNOWN, |
| 529 | GOETTSCHE, CHARLES |
| 535 | MEYER, JOHN E |
| 543 | OCCUPANT UNKNOWN, |
| 611 | TOSTENSON RON CONSTRUCTION |

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|---|---|---|
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## WESTERN DR 2010 (Cont'd)

611 TOSTENSON, RONALD
615 DANSUN DESIGNS
DOELLSTEDT, WERNER E
616 ARMSTRONG JOHN W
MARTINC, AVITAL
622 CORRADO, ALFRED
625 KNOWLES, THOMAS C
628 ULTSCH, BRUCE H
631 HESSE, WRITER
632 LATHAM, BROCK D
641 SMITH, DAVID B
645 OSTRANDER, KATHARYN E
646 OCCUPANT UNKNOWN,
706 OCCUPANT UNKNOWN,
707 BRANSTETTER, KATHERINE B
717 DANIELS, DOUGLAS L
723 GIBNEY, CHRISTOPHER J
737 FARRAR, KATHRYN
747 EAST BAY YOUTH BASEBALL ASSN
ELLIOT, WILLIAM C
754 OCCUPANT UNKNOWN,
755 MOORE, KYLE A
757 JANES, KYONG S
765 GOSHAY, ROBERT C
771 BINTINGER, DAVID L
778 EAKLE, JAMES K
800 OCCUPANT UNKNOWN,
SOMATIC LEARNING
808 GILLIES, ROBERT D
917 MARTINE, MAKOWER
961 SAN RAFAEL ROCK QUARRY INC
1900 FAST LANE INC
MAGNO THELMA C
MARCHAYRE
SAN PABLO BAY SPORTSMAN CLUB
YACHT HARBOR

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|---|---|---|
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## 25TH ST 2005

| | |
|---|---|
| 122 | HERRERA, CELERINO R |
| 175 | MA, XU C |
| 181 | RIOS, ERNESTINA E |
| 185 | ALLURE ART & ACCESSORIES |
| | COLLINS, REBA |
| 187 | OCCUPANT UNKNOWN, |
| 216 | VARGAS, CHAVEZ J |
| 217 | RANGEL, GONZALO |
| 220 | ASIAN PACIFIC ENVMTL NETWRK |
| | KHMU INTERNATIONAL |
| | LAO SENIOR ASSOCIATES INC |
| | OCCUPANT UNKNOWN, |
| 223 | BURRIS JOHN LAW OFFICE OF |
| 229 | MOSTLY MAINTENANCE |
| 232 | BROWNLEE, DOROTHY |
| 236 | RODRIGUEZ, CELSO H |
| 237 | NANCY BURKE |
| | WEATHERLY JUDITH |
| 240 | SCOTT, ALISHA |
| 242 | HERDA, ELLEN A |
| 243 | MILLER, ANDREA M |
| 249 | WILLIAMS, ELLA |
| 250 | OCCUPANT UNKNOWN, |
| 315 | CASCO, VICTOR F |
| | CHEN, MEIMEI |
| | GARCIA, MARIO M |
| | HERNANDEZ, EMILIO |
| | MACKEY, DEVIN |
| | MARIA, LOPEZ G |
| | MARTINEZ, RIGOBERTO |
| | PRICE, JAMINE E |
| | RAYMUNDO, ELFIDO R |
| | RIVAS, MELISSA |
| | SANCHEZ, JESUS |
| | SANTOS, VICTORIA |
| | SMITH, HAROLD S |
| | SOLIS, ENRIQUE |
| 330 | CONTRA COSTA COUNTY OF |
| | EXECUTIVE OFFICE STATE OF CA |
| | RICHMOND CITY OF |
| | SENIOR COMMUNITY SVC EMPLYMNT |
| 342 | JACKSON, BARBARA E |
| 516 | OCCUPANT UNKNOWN, |
| 518 | FADEL, F |
| 520 | SAENTANE, MEUYON |
| 522 | OCCUPANT UNKNOWN, |
| 526 | OCCUPANT UNKNOWN, |
| 534 | LARA, RICARDO |
| 537 | CASTRO, JAVIER |
| 540 | MOORE, JOHN L |

## 25TH ST 2005 (Cont'd)

544 VALENTIN, JUAN M
545 CERDA, ADRIANA
552 PERA, TASHA B
555 OCCUPANT UNKNOWN,
560 SCOTT, BESSIE S
561 ROLAN, PRESTON L
567 TRAN, BRYAN
570 RANDLE, VALERIE D
571 NGUYEN, DUC V
574 CHRISTENSEN, JOYCE A
575 LE, VANPHU P
579 EDWARDS, LELIA M
604 OCCUPANT UNKNOWN,
608 DELEON, REYNALDO M
609 WILSON, DEBORAH L
614 THIERRY, FELIX
615 BARBARA PELEG
YORAM PELEG
617 SOSA, BALMORE A
620 HARRIS, HELEN M
621 ROBERTS, GREGORY M
625 CHAVEZ, JUVENCIO S
626 MOURA, ANTONIO G
627 OCCUPANT UNKNOWN,
628 HERNANDEZ, ABRAHAM
631 MOLINAR, RAYMOND J
633 OCCUPANT UNKNOWN,
634 BROOKS, SHELIA R
637 HANLEY, THOMAS A
638 ABRAMSON, ALICE
JACK RABBIT CATERERS & EVENT P
656 CINTRON, LUIS
660 OCCUPANT UNKNOWN,
700 BROWN, HERMAN
710 EVANS, JOHN
714 OSTERHOLT, MARIA
1311 J D N JANITORIAL

| Target Street | Cross Street | Source |
|---|---|---|
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# WESTERN DR 2005

| | |
|---|---|
| 8 | PETERS, MARGO S |
| 40 | DARK HORSE TRADING COMPANY |
| | WASHBURN, JACK |
| 43 | CRAINE, ROGER |
| 48 | TANNOR, SHIRA |
| 50 | LEWIS COMPANY |
| | LEWIS, DONALD C |
| 51 | HERRON, ELLEN P |
| 55 | SHEA, JEFF J |
| 111 | MILLER, ROBERT A |
| | OKAMOTO, CLIFFORD C |
| 125 | FRANCIS, GREGORY |
| 127 | CHAUVET, JOHN |
| | MARSHMAN, DAVID D |
| | SHAUVET, JOHN |
| | SHORR, MARC U |
| 128 | SCHAEFER, STEPHEN C |
| 215 | RIGNEY, RICHARD N |
| 216 | DUMOULIN, WILLIAM H |
| 225 | JENSEN, ANN G |
| 230 | FRARY, DIANE M |
| | JNS CONSULTANTS |
| 248 | ADACHI, CATHERINE A |
| | CATHERINE ADACHI PT |
| 251 | MIRLO, W |
| 257 | PATINO, LETICIA |
| 265 | NEEL, GEORGE R |
| 266 | FOSTIAK, MARIE E |
| 269 | FROKER, DAVE |
| 279 | OCCUPANT UNKNOWN, |
| 315 | OCCUPANT UNKNOWN, |
| 317 | BUXTON, CRAIG P |
| 318 | PERI, C A |
| 320 | CHAMBERS, ARTHUR C |
| 323 | OCCUPANT UNKNOWN, |
| 331 | BROOKS WALTER THOMAS ARCHITECT |
| | BROOKS, WALTER T |
| 339 | HORN, REBECCA A |
| 345 | ANACKER, ROBERT D |
| 348 | OCCUPANT UNKNOWN, |
| 360 | OCCUPANT UNKNOWN, |
| 367 | KOWALSKI, STEPHEN M |
| 380 | KEEFE, GERALD J |
| | LEHMAN ALLISON YACHT SALES |
| 385 | OCCUPANT UNKNOWN, |
| 387 | RATTNER, JUDY A |
| 391 | FARROW, JOE W |
| 393 | BURDICK, ROBERT C |
| 394 | RYDGREN, DENNIS M |
| 399 | OCCUPANT UNKNOWN, |

| Target Street | Cross Street | Source |
|---|---|---|
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## WESTERN DR 2005 (Cont'd)

| | |
|---|---|
| 400 | COTTER MICHAEL J |
| | RINE, JASPER D |
| 401 | BEAL, BIREN |
| 408 | WAINSCOTT, JOHN |
| 411 | MCNAIR CONSTRUCTION |
| | MCNAIR, MARTIN B |
| 420 | LARIMER, ROBERT A |
| 421 | JANES, DAVID B |
| 427 | VALLIVERO, WILLIAM |
| 430 | MOLYNEUX, RUSSELL J |
| 440 | OKENNON, JENNA E |
| 441 | SPARKS, OLENE P |
| 457 | LANGILLE, EUGENE G |
| 469 | CLARK-TURNER, JOYCE |
| 470 | STALLINGS, KENLEY W |
| 474 | GREENE, LUTHER M |
| | MARIN INVESTORS LP |
| | MCDONALD PROPERTIES A CAL LTD |
| 475 | SWETT, JENNIFER C |
| 480 | SNOW, LUCY |
| 483 | GREINER, DOUGLAS E |
| 484 | CHIU, DANIEL T |
| 487 | CONDIOTTI, STEVEN H |
| | EAST BAY BUSINESS SERVICE |
| | SC PROPERTY DEVELOPMENT |
| 488 | BEAK, ADAM |
| 490 | BLUHON, PAUL L |
| 494 | FITZPATRICK, BERNE |
| 495 | MARTIN, RICHARD L |
| 500 | DAVID & MELANI KING |
| | KING, DAVID F |
| | WHALE CONSERVATION & RESE |
| | WHALE FUND |
| 514 | BUILDERS BOOKSOURCE |
| | KISKADDON, GEORGE L |
| 517 | LIZARRAGA, MARIANO H |
| 527 | BOGUE, PHYLLIS R |
| 529 | JACKSON, LANCE |
| 535 | MEYER, JOHN E |
| 543 | OCCUPANT UNKNOWN, |
| 611 | BREDEMEIER, JAMES E |
| 615 | OCCUPANT UNKNOWN, |
| 616 | ARMSTRONG JOHN W |
| | OBRIEN, COLETTE K |
| 622 | SHARFMAN, SUSAN |
| 625 | KNOWLES, THOMAS C |
| 628 | ULTSCH, BRUCE H |
| 631 | PERRY, DORIS S |
| 632 | LATHAM, ROBERT R |
| 641 | SMITH, DAVID B |

# WESTERN DR 2005 (Cont'd)

645 OSTRANDER, KATHRYN E
646 BENNETT, GEORGE F
707 BRANSTETTER, KATHERINE B
714 EAKLE, JAMES K
717 DANIELS, DOUGLAS L
723 GIBNEY, CHRISTOPHER J
737 FARRAR, KATHRYN
747 ELLIOT, WILLIAM C
754 OCCUPANT UNKNOWN,
755 KYLE A MORE MD A MDCLCRPRATION
MOORE, KYLE A
757 BURRESS, ROMILDA G
765 GOSHAY, ROBERT C
771 WHITNEY, JOYCE M
778 OCCUPANT UNKNOWN,
800 HINES, JEFF A
917 CARSON, THOMAS C
961 SAN RAFAEL ROCK QUARRY INC
999 NORTHWEST CASCADE INC
TUTOR SALIBA CERTIFIED COATING
1900 FAST LANE INC
MARCHAYRE
YACHT HARBOR
2001 GREEN, ROBIN B
2101 SHRIEVE CHEMICAL PRODUCTS INC

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## 25TH ST 2000

| | |
|---|---|
| 220 | LAO SENIOR ASSOC INC |
| 223 | GLOBAL REACHING OUT |
| | RICHMOND TOXIC COR |
| | SMART CAPITAL INVESTORS |
| 229 | MOSTLY MAINTENANCE |
| 330 | EMPLOYMENT DEVELOPMENT CA DEPT |
| | REDEVELOPMENT HOUSING DIV |
| | RICHMOND CITY OF |
| | RICHMOND FIRE DEPARTMENT |
| 638 | JACK RABBIT CATERING |
| 1311 | J D N JANITORIAL |

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|---|---|---|
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# WESTERN DR 2000

| | |
|---|---|
| 5 | PARKER, S F |
| 40 | DARK HORSE TRADING COMPANY |
| | WASHBURN, KENNETH |
| 43 | CALIFORNIA WATER COLOR ASSOC |
| | RAININ, CAROL |
| 51 | HERRON, ELLEN P |
| | OLESEN, B A |
| 55 | TRICE, JUDITH A |
| 104 | OCCUPANT UNKNOWN, |
| 111 | MOE, ERIC |
| 125 | OCCUPANT UNKNOWN, |
| 127 | CUSSON, DIAN L |
| 128 | SCHAEFER, STEPHEN C |
| 204 | OCCUPANT UNKNOWN, |
| 212 | OCCUPANT UNKNOWN, |
| 215 | RIGNEY, V |
| 216 | OCCUPANT UNKNOWN, |
| 225 | OCCUPANT UNKNOWN, |
| 230 | JNS CONSULTANTS |
| | SWETT, J |
| 240 | BATTS, RICHARD E |
| 248 | ADACHI, C A |
| 251 | TARR, WAYNE P |
| 265 | NEEL, GEORGE R |
| 269 | WEISS, PETER S |
| 315 | OCCUPANT UNKNOWN, |
| 317 | LOW, MARIA |
| 318 | LOW, M W |
| 320 | CHAMBERS, ARTHUR C |
| 323 | OCCUPANT UNKNOWN, |
| 331 | BROOKS WALTER THOMAS ARCHITECT |
| | BROOKS, WALTER T |
| 345 | IMPERATORE, NOELLE |
| 348 | TEDRICK, GRETHE C |
| 360 | OCCUPANT UNKNOWN, |
| 367 | POEHLER, TED |
| 380 | OCCUPANT UNKNOWN, |
| 387 | MEEK, BEN E |
| | RATTNER, JUDY |
| 391 | OCCUPANT UNKNOWN, |
| 393 | BURDICK, ROBERT L |
| 394 | SELF R G CONSTRUCTION |
| 399 | OCCUPANT UNKNOWN, |
| 400 | COTTER MICHAEL J |
| | COTTER, MICHAEL J |
| 401 | FLEMING, VALERIE |
| 408 | CHAMBERS, CHARLES |
| 411 | MCNAIR CONSTRUCTION |
| | MCNAIR, MARTIN B |
| 420 | LARIMER, ROBERT A |

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|---|---|---|
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## WESTERN DR 2000 (Cont'd)

427 VALLIVERO, WILLIAM
430 MOLYNEUX, RUSSELL
440 HERRON, LAURIE J
441 SPARKS, OLENE
457 LANGILLE, GENE
469 TURNER, JOYCE C
470 STALLINGS, KENLEY
471 ZVOLEFF, VERNON I
474 GREENE, LUTHER M
KENNEDY, KYRA A
475 CHRISMAN, BARD
480 OCCUPANT UNKNOWN,
483 GREINER, DOUGLAS
484 CHIU, DANNY T
485 OCCUPANT UNKNOWN,
488 BEAK, ADAM
490 OCCUPANT UNKNOWN,
494 STEWART, ROBERT D
495 MARTIN, RICHARD
500 DAVID & MELANI KING
KING, DAVID
514 KISKADDON, GEORGE
517 LIZARRAGA, MARIANO H
521 VERHINES, ROBERT J
527 BOGUE, LLOYD N
529 SITZMANN, MATTHEW M
535 MEYER, JOHN E
543 OCCUPANT UNKNOWN,
611 OCCUPANT UNKNOWN,
615 DOELLSTEDT, WERNER
616 ARMSTRONG, JOHN W
622 SHARFMAN, SUSAN
625 KNOWLES, THOMAS C
628 OCCUPANT UNKNOWN,
631 PERRY, DORIS M
632 LATHAM, ROBERT
635 OCCUPANT UNKNOWN,
641 SMITH, DAVID B
645 OSTRANDER, KATHRYN E
646 FELT, DONALD K
701 OCCUPANT UNKNOWN,
706 AROLA, DARREN F
LIVINGSTON, GRACE
RUSSELL, LARRY L
707 BRANSTETTER, K B
714 LATKA, ALYSSA
717 CAMPBELL FILM & VIDEO INTL
DANIELS, DOUGLAS L
723 BOELL, LAURA
747 ELLIOTT, WILLIAM C

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## WESTERN DR 2000 (Cont'd)

| | |
|---|---|
| 754 | NERO, RICKEY |
| 755 | MOORE, KYLE |
| 765 | GOSHAY, ROBERT C |
| 771 | WHITNEY, JOYCE M |
| 778 | EACLE, KIT |
| | EAKLE, JAMES |
| 800 | BELLATI, F |
| 808 | MANDL, MAE |
| 917 | CARSON THOMAS C |
| 961 | SAN RAFAEL ROCK QUARRY INC |
| 1900 | HEATH, WENDE |
| | POINT SAN PABLO YACHT HARBOR |
| 2101 | VOPAK TERMINALS NORTH AMERICA |

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|---|---|---|
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## 25TH ST 1995

| | |
|---|---|
| 122 | HERRERA, L R |
| 175 | FATE, FRANK |
| 181 | THOMAS, EVELYN J |
| 185 | OCCUPANT UNKNOWNN |
| | WEN-HSIVNG TSAI MD |
| 216 | PRASEUTH, KHAM |
| 217 | QUIROZ, ALFRED |
| 223 | ADRIONNE D BEASLEY |
| 229 | OCCUPANT UNKNOWNN |
| 232 | DIAZ, MERIDA Z |
| 236 | WEISENBERGER, MARY M |
| 237 | SALGADO PIERRE F MD |
| | SALGADO, PIERRE |
| 242 | ELLE, ROGER O |
| 243 | OCCUPANT UNKNOWNN |
| 249 | TINDAL, WILLIAM H |
| 315 | SMITH, HAROLD S |
| 330 | RICHMOND CITY OF |
| 516 | CUNNINGHAM, GERRELL |
| 518 | ALIM, R |
| 520 | NOBLE, ANN |
| 522 | OCCUPANT UNKNOWNN |
| 526 | BICE, LELAND F |
| 531 | OCCUPANT UNKNOWNN |
| 534 | LARA, LEONCIO R |
| 537 | OCCUPANT UNKNOWNN |
| 540 | OCCUPANT UNKNOWNN |
| 544 | OCCUPANT UNKNOWNN |
| 545 | OCCUPANT UNKNOWNN |
| 552 | OWENS, LESLEY H |
| 555 | WAYNE, TRESSIE |
| 560 | SCOTT, BESSIE S |
| 566 | MCKENNA, K |
| 567 | MATLOCK, DOROTHY |
| 570 | OCCUPANT UNKNOWNN |
| 571 | HARRISON, CARRIE L |
| 574 | CHRISTENSEN, JOYCE A |
| 578 | GRAVES BILL M |
| 608 | DELEON, CORAZON |
| 609 | OCCUPANT UNKNOWNN |
| 611 | DIGIROLAMO, DANIEL |
| 614 | THIERRY, FELIX JR |
| 615 | OCCUPANT UNKNOWNN |
| 620 | OCCUPANT UNKNOWNN |
| 621 | OCCUPANT UNKNOWNN |
| 626 | OCCUPANT UNKNOWNN |
| 627 | PENA, SUZANNE L |
| 628 | THOMPSON, HARRY C |
| 630 | HODGSON, GEORGE W |
| 637 | MOURA, MARIA |

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## 25TH ST 1995 (Cont'd)

638 OCCUPANT UNKNOWNN

| Target Street | Cross Street | Source |
|---|---|---|
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# WESTERN DR 1995

| | |
|---|---|
| 43 | CRAINE, ROGER |
| | RAININ, CAROL |
| 44 | TRICE, JUDITH A |
| 50 | LEWIS, DONALD C |
| 51 | HERRON, ELLEN P |
| | OLESEN, BA |
| 55 | OCCUPANT UNKNOWNN |
| 111 | OCCUPANT UNKNOWNN |
| 128 | SCHAEFER, STEPHEN C |
| 204 | OCCUPANT UNKNOWNN |
| 212 | OCCUPANT UNKNOWNN |
| 215 | OCCUPANT UNKNOWNN |
| 216 | OCCUPANT UNKNOWNN |
| 225 | JENSEN, DANIEL L |
| 230 | SWETT, J |
| 240 | BATTS, RICHARD E |
| 251 | DELMORE, R |
| 265 | NEEL, GEORGE R |
| 266 | OCCUPANT UNKNOWNN |
| 269 | RUDOLF, GEORGE |
| 317 | NEUHAUSER, CRAIG P |
| 320 | CHAMBERS, ARTHUR C |
| 323 | STODDARD, JACK |
| 331 | BROOKS, JEAN M |
| 339 | HORN, WALTER W |
| 345 | HARROTT, ARNULF |
| 348 | TEDRICK, GRETHE C |
| 360 | LEE, DAVID M |
| 367 | POEHLER, TED |
| 385 | OCCUPANT UNKNOWNN |
| 387 | RATTNER, JUDY |
| 391 | HARRA, JEFF |
| 399 | OCCUPANT UNKNOWNN |
| 400 | COTTER, TUULA |
| 401 | FLEMING, JOHN G |
| 408 | OCCUPANT UNKNOWNN |
| 411 | OCCUPANT UNKNOWNN |
| 420 | LARIMER, ROBERT A |
| 421 | JANES, DAVID |
| 427 | OCCUPANT UNKNOWNN |
| 430 | MOLYNEUX, RUSSELL J |
| 440 | OCCUPANT UNKNOWNN |
| 441 | OCCUPANT UNKNOWNN |
| 457 | AMWAY COML & HM PRDCTS |
| | LANGILLE, GENE |
| 469 | GREEN, K P |
| 471 | OCCUPANT UNKNOWNN |
| 474 | LANGKAMMERER, GERALD |
| | WALSH, JUDY |
| 475 | DESMET, ROBERT F |

| Target Street | Cross Street | Source |
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## WESTERN DR 1995 (Cont'd)

480 OCCUPANT UNKNOWNN
483 OCCUPANT UNKNOWNN
484 KINARD GROUP
OCCUPANT UNKNOWNN
485 KINARD, JOSEPH M
488 WANG ARCHITECTS
WANG, MICHAEL
494 STEWART, ROBERT D
500 KING, DAVID
514 KISKADDON, GEORGE
517 LIZARRAGA, EVELYN
521 OCCUPANT UNKNOWNN
527 BOGUE, LLOYD N
529 SARASY, BRIAN P
535 ROTTMANN, W C
611 OCCUPANT UNKNOWNN
615 DOELLSTEDT, WERNER
616 ARMSTRONG, JOHN W
622 SHARFMAN, SUSAN T
625 KNOWLES, THOMAS C
631 PERRY, DORIS M
632 LATHAM, ROBERT
641 SMITH, DAVID B
645 OCCUPANT UNKNOWNN
646 LORD, K
701 LINCOLN, A
703 OCCUPANT UNKNOWNN
706 LIVINGSTON, GRACE
RUSSELL, LARRY L
714 OCCUPANT UNKNOWNN
717 CAMPBELL FILM & VIDEO INTL
DANIELS, DOUGLAS L
723 OCCUPANT UNKNOWNN
747 OCCUPANT UNKNOWNN
755 OCCUPANT UNKNOWNN
757 BURRESS, ROMILDA R
765 GOSHAY, ROBERT C
771 PLANERT, MARY
800 BELLATI, F
808 MANDL, MAE
917 OCCUPANT UNKNOWNN
1900 ELMS, F G
ETTA, BILL V
HEATH, WENDE
HOFFMAN, LILLIAN
WANG, MEI
2101 PAKTANK CORPORATION

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|---|---|---|
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## 25TH ST 1992

| | |
|---|---|
| 181 | SULLIVAN, MICHAEL |
| 185 | WEN-HSIVNG TSAI MD |
| 216 | KHAM, P |
| 223 | ADRIONNE D BEASLEY |
| 232 | SANDERS NATHANIEL |
| 237 | SALGADO PIERRE F |
| 250 | HEATH, BETTINA M |
| 253 | DURANT, D V |
| 526 | BICE, LELAND F |
| 552 | GERLOFF, WALTER |
| 555 | HASKINS, U V |
| 566 | MCKENNA, K |
| 578 | GRAVES BILL M |
| 604 | DAVIS, MARK |
| 608 | DELEON, CORAZON |
| 611 | DIGIROLAMO, DANIEL |
| 614 | THIERRY, FELIX JR |
| 615 | MINTER PRESS |
| 620 | HARRIS, CECIL W |
| 621 | HICKS, RICHARD C |
| 626 | REAMY, ERMAN S |
| 628 | THOMPSON, HARRY C |
| 631 | KLEISER, JOSEPH C |
| 1680 | GOCK TN W & YUAN ZINENG |

| Target Street | Cross Street | Source |
|---|---|---|
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# WESTERN DR 1992

| | |
|---|---|
| 8 | FREE AT LAST PRODUCTS |
| 43 | CRAINE, ROGER |
| 51 | HERRON, ELLEN P |
| | OLESEN, BARBARA A |
| 125 | SPIGHT, MICHAEL |
| 204 | COLES, GEORGE R JR |
| 212 | GOLAY, STEVE L |
| 225 | JENSEN, DANIEL L |
| 230 | SWETT, J |
| 251 | DELMORE, R |
| 265 | NEEL, GEORGE R |
| 269 | RUDOLF, GEORGE |
| 317 | ELY LAKE FILM COMPANY |
| 323 | STODDARD, JACK |
| 345 | ANDERSON, ROSCOE J JR |
| 367 | POEHLER, TED |
| 387 | CHAMBERLAIN INSURANCE ASSOC |
| | MEEK, BEN E |
| 401 | FLEMING, JOHN G |
| 420 | LARIMER, ROBERT A |
| 457 | AMWAY COML & HM PRDCTS EB |
| | LANGILLE, GENE |
| 474 | LANGKAMMERER, GERALD |
| | WALSH, JUDY |
| 483 | GREINER, DOUGLAS |
| 488 | WANG, MICHAEL |
| 500 | KING, DAVID F |
| 514 | KISKADDON, GEORGE |
| 527 | BOGUE, LLOYD N |
| 529 | BROUGHAM, G L |
| 611 | BREDEMEIER, JAMES |
| 615 | DOELLSTEDT, WERNER |
| 631 | PERRY, DORIS M |
| 632 | LATHAM, ROBERT |
| 645 | OSTRANDER, CHARLES W |
| 646 | LORD, K |
| 706 | LIVINGSTON, GRACE |
| | RUSSELL, LARRY L |
| 707 | CAMPBELL FILM & VIDEO INTL |
| | DANIELS, DOUGLAS L |
| 717 | DANIELS, DOUGLAS |
| 747 | ENDERLE, RICHARD |
| 765 | GOSHAY, ROBERT C |
| 778 | EAKLE, JAMES |
| 800 | BELLATI, F |
| 961 | AMERICAN ROCK & ASPHALT INC |
| 979 | CALIFORNIA CRUISING CLUB |
| 1900 | ANDREWS, JOHN D |
| | CAS BOOK CO |
| | ELMS, F G |

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | EDR Digital Archive |

## WESTERN DR 1992 (Cont'd)

1900 HOFFMAN, LILLIAN
SANDQUIST, DALE C
2100 TERRACE CAFE
2101 PAKTANK CORPORATION

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

**25TH ST 1985**

25TH 94804 RICHMOND

| | | | |
|---|---|---|---|
| 122 | XXXX | 00 | |
| 169 | RUBICON PRGMS INC | 236-0796 | 2 |
| 173 | XXXX | 00 | |
| 175 | RUBICON PRGMS INC | 234-2204 | 9 |
| 181 | FELDMAN STEVEN P MD | 234-8040 | 0 |
| | GREENE RONALD L MD | 234-8040 | 8 |
| | PATTERSON MARY L MD | 234-8040 | 3 |
| | RAINBOW PEDIATRICS | 234-8040 | 8 |
| 185 | XXXX | 00 | |
| 216 | TALLERICO GENNARO | 235-5350 | 7 |
| 217 | XXXX | 00 | |
| 220 | XXXX | 00 | |
| 223 | CHANG ROBT MED CORP | 233-4253 | |
| 229 | XXXX | 00 | |
| 232 | CREWS REECIE JR | 233-3555 | 4 |
| 236 | XXXX | 00 | |
| 237 | SALGADO PIERRE F MD | 233-2083 | |
| 242 | CRAFT SC OF MASSAGE | 234-1012 | +5 |
| 243 | XXXX | 00 | |
| 250 | CHILDRENS HM SOCTY | 236-4930 | 3 |
| 253 | CAMPBELL KERRY M | 237-5523 | 4 |
| | MCINTYRE TILE | 620-0200 | 4 |
| 256 | XXXX | 00 | |
| 315 | RAYMOND APTS | | |
| | COFFIN F | 233-5107 | |
| | DOZIER ERIC | 235-0885 | +5 |
| | HATWIG JEFF | 236-3571 | +5 |
| | RAZZANO DAVID L | 234-6052 | 4 |
| | RIORDAN ROBT E | 235-8825 | 4 |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# 25TH ST 1985

| 25TH | | 94804 CONT | |
|---|---|---|---|
| | STANLEY E D SR | 234-6539 | 1 |
| - 315 | | | |
| 330 | **NEIGHBORHOOD HSE** | **235-8400** | 4 |
| | **RICHMND CTY MANPOWR** | **231-2070** | 0 |
| | **RICHMND POL LEAGUE** | **236-0933** | 4 |
| 342 | JACKSON ROBT MRS | 529-0253 | |
| | **NEW AGE FINISH TUB** | **234-1012** | 4 |
| 516 | XXXX | 00 | |
| 520 | XXXX | 00 | |
| 522 | SANBORN G | 234-7482 | |
| 526 | BICE J C | 234-0209 | |
| | BICE LELAND F | 234-0209 | |
| 531 | XXXX | 00 | |
| 534 | SENECHAL ELSIE A | 232-1598 | 8 |
| 540 | LANG DON | 236-8668 | 9 |
| 544 | KUGELMAN CALVIN A | 234-1701 | |
| 552 | GERLOFF WALTER | 232-6876 | |
| 555 | HASKINS JOELILLIE | 234-0630 | 8 |
| 561 | BROOKS LEVON E | 232-6491 | 0 |
| 567 | XXXX | 00 | |
| 570 | SCHOTT JIM | 235-6344 | +5 |
| 571 | XXXX | 00 | |
| 574 | XXXX | 00 | |
| 575 | XXXX | 00 | |
| 578 | GRAVES BILL M | 232-0518 | |
| 579 | GANUS JAS C | 237-2741 | 1 |
| 604 | DAVIS MARK | 234-8810 | 4 |
| 608 | ANDERSON EARNEST | 234-7793 | +5 |
| 609 | XXXX | 00 | |
| 611 | CHRISTENSEN P MRS | 234-5096 | |
| 614 | THIERRY FELIX JR | 235-2272 | |
| 615 | **MINTER PRESS THE** | **234-6695** | 3 |
| 620 | HARRIS C W | 232-8645 | 4 |
| 621 | XXXX | 00 | |
| 625 | XXXX | 00 | |
| 626 | REAMY E S | 233-1801 | |
| 627 | XXXX | 00 | |
| 628 | THOMPSON HARRY C | 234-0737 | |
| 630 | XXXX | 00 | |
| 631 | KLEISER J C | 232-2569 | |
| 633 | XXXX | 00 | |
| 637 | XXXX | 00 | |
| 638 | QUADROS DAVID | 235-9921 | |

## ZIP CODE 94806
## SAN PABLO

| | | | |
|---|---|---|---|
| 1311 | BAILEY GERALDINE | 237-7469 | 0 |
| 1319 | TEMPLE STEVEN | 233-3981 | 8 |
| 1327 | XXXX | 00 | |
| 1402 | XXXX | 00 | |
| 1412 | SINDICICH JOHN JR | 233-6200 | |
| 1415 | LOWRANCE JOHN S | 234-5656 | |
| 1421 | XXXX | 00 | |
| 1427 | XXXX | 00 | |
| 1508 | GOLDMAN ANDREW J | 232-1273 | |
| 1516 | BUSCHELMAN M G | 237-1503 | |
| 1526 | XXXX | 00 | |
| 1527 | XXXX | 00 | |
| 1540 | XXXX | 00 | |
| 1545 | XXXX | 00 | |
| 1605 | BATEMAN ROBT | 235-7097 | |
| 1613 | CANHOTO JOSE | 237-6517 | 8 |
| 1614 | XXXX | 00 | |
| 1621 | XXXX | 00 | |
| 1680 | MAK ROBT | 232-6334 | |
| NO # | **ART CENTER** | **231-2163** | 3 |
| NO # | **RICHMND BALLET CO** | **237-5065** | 4 |
| * | 17 BUS 74 RES | 5 NEW | |

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | Haines Criss-Cross Directory |

# WESTERN DR 1985

## WESTERN DR 94801
## RICHMOND

| | | | |
|---|---|---|---|
| 8 | MASKE ROBT | 234-6989 | 0 |
| 31 | SCHUBERT WILLIAM | 233-3357 | +5 |
| 40 | MARKS GEO | 233-9863 | |
| 43 | DAY BOYSIE E | 237-4159 | 1 |
| 50 | XXXX | 00 | |
| 51 | HERRON E PATRICIA | 234-9229 | |
| 55 | OLESEN SHAPIERO | 237-8072 | 2 |
| 111 | FOWLER L | 234-6158 | 3 |
| 125B | BROWN R J | 236-9743 | +5 |
| 127 | DAVIS KYLE | 234-6592 | 4 |
| | ROSEN JOSH | 234-6592 | 4 |
| | ROSEN NICK | 234-6592 | 4 |
| 128 | TROY THOS | 236-4908 | +5 |
| 204 | COLES GEO R JR | 234-1045 | |
| 212 | XXXX | 00 | |
| 216 | PALKO JOS | 233-2769 | |
| 225 | JENSEN A G | 232-6035 | 3 |
| | JENSEN DANL L CSB | 233-6489 | |
| 230 | XXXX | 00 | |
| 240 | XXXX | 00 | |
| 248 | XXXX | 00 | |
| 251 | DELMORE RANDOLPH | 235-1935 | |
| 257 | WIRTH B M | 237-1244 | |
| 265 | NEEL GEORGE R | 237-3549 | |
| 266 | FOSTIAK SHEILA | 234-5598 | |
| 269 | RUDOLF GEORGE | 234-5122 | 9 |
| 307 | PARKER BEULAH DR | 235-0292 | 3 |
| | WILL OTTO A DR | 235-0292 | 3 |
| 315 | XXXX | 00 | |
| 317 | HANSON JOHN | 235-9282 | 4 |
| | SCHULBERG SANDRA | 235-9282 | 4 |
| 320 | XXXX | 00 | |
| 323 | STODDARD JACK | 232-1615 | |
| 339 | HORN WALTER W | 233-7733 | |
| 345 | ANDERSON R J JR | 234-7153 | |
| 348 | TEDRICK GRETHE | 234-0415 | |
| 360 | XXXX | 00 | |
| 367 | CHILES GARDNER | 232-7522 | |
| 385 | PETERSON DAN G | 235-0619 | +5 |

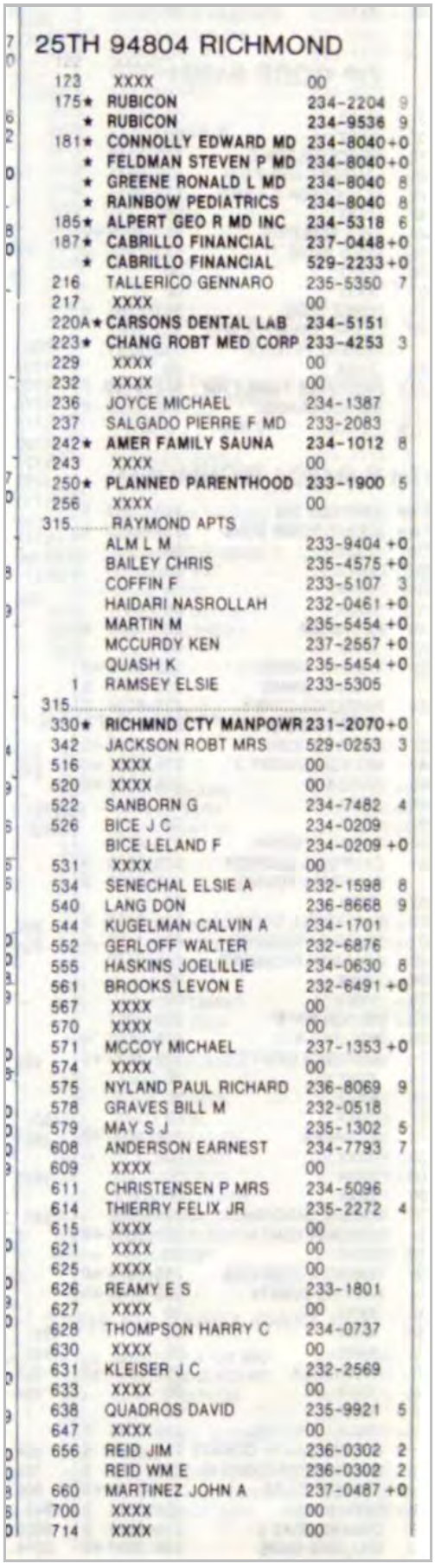
| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | Haines Criss-Cross Directory |

# WESTERN DR 1985

| WESTERN DR | | 94801 CO |
|---|---|---|
| | PETERSON K KENT | 235-570 |
| 387 | BARTKOSKI RON | 236-184 |
| 391 | XXXX | 00 |
| 393 | BURDICK ROBT L | 233-627 |
| 399 | FLEMING B | 237-504 |
| 401 | FLEMING J G | 234-949 |
| 411 | MAJOR EMERY | 235-675 |
| | SALMI M E | 235-131 |
| 420 | LARIMER ROBT ALDEN | 234-594 |
| 421 | JANES KENNETH INTR | 232-155 |
| 440 | XXXX | 00 |
| 469 | FEAGLEY JERRY | 235-877 |
| 474 | LANGKAMMERER GERALD | 236-6749 |
| | WALSH JUDY | 236-6749 |
| 475 | RUSSELL KIRK | 236-2199 |
| 480 | CAMREN C L | 234-8232 |
| 483 | GREINER DOUGLAS | 232-2663 |
| 494 | XXXX | 00 |
| 500 | KING DAVID FRANK | 233-9254 |
| 501 | XXXX | 00 |
| 514 | CROZIER A T | 235-9261 |
| | TOLLE ELBERT S | 235-9261 |
| 517 | XXXX | 00 |
| 521 | WILSON RICHARD F | 234-0814 |
| 527 | BOGUE LLOYD N | 232-8327 |
| 529 | BROUGHAM G L | 233-0063 |
| 535 | XXXX | 00 |
| 611 | BOONEPEDRICK L | 234-3303 |
| 615 | DOELLSTEDT WERNER | 234-5433 |
| 616 | XXXX | 00 |
| 622 | XXXX | 00 |
| 625 | PAINTER J H JR | 237-6600 |
| | VAN ABKOUDE J | 237-6600 |
| 628 | MATHIS JAS T | 237-6010 |
| 631 | PERRY D S | 234-1711 |
| 632 | LATHAM ROBT | 234-3429 |
| 641 | RAWLINS TOM | 236-8499 |
| 645 | OSTRANDER CHAS W | 234-5783 |
| 646 | LORD KATHERINE | 235-6514 |
| 706 | BRENNAN C F | 237-8438 |
| 707 | ENGLISH WILLIAM S | 232-5376 |
| 714 | VANDYK WM A | 233-5908 |
| 717 | XXXX | 00 |
| 723 | BOUDREAU DAVID | 237-9675 |
| | HERZOG V STEVE | 237-9675 |
| | TROWBRIDGE BRETT | 237-9675 |
| 747 | ALAN RICHARD | 236-0407 |
| 755 | JOHNSON T L | 233-5971 |
| 757 | XXXX | 00 |
| 765 | CONNOLLY WALTER | 235-7649 |
| | VONSEGESSER C | 237-0565 |
| 771 | XXXX | 00 |
| 778 | EAKLE JAS | 233-2195 |
| 800 | BELLATI FERDINANDO | 232-0738 |
| 808 | XXXX | 00 |
| 917 | UTERITZ IRWIN | 234-2997 |
| 941 | XXXX | 00 |
| 961 | QUARRY PRODUCTS INC | 233-8362 |
| 979 | RED ROCK MARINA | 235-0515 |
| 2101 | PAKTANK CORP | 233-0418 |
| * | 5 BUS 35 RES | 12 NEW |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# 25TH ST 1980



## 25TH 94804 RICHMOND

| | | | |
|---|---|---|---|
| 173 | XXXX | 00 | |
| 175★ | **RUBICON** | **234-2204** | 9 |
| ★ | **RUBICON** | **234-9536** | 9 |
| 181★ | **CONNOLLY EDWARD MD** | **234-8040** | +0 |
| ★ | **FELDMAN STEVEN P MD** | **234-8040** | +0 |
| ★ | **GREENE RONALD L MD** | **234-8040** | 8 |
| ★ | **RAINBOW PEDIATRICS** | **234-8040** | 8 |
| 185★ | **ALPERT GEO R MD INC** | **234-5318** | 6 |
| 187★ | **CABRILLO FINANCIAL** | **237-0448** | +0 |
| ★ | **CABRILLO FINANCIAL** | **529-2233** | +0 |
| 216 | TALLERICO GENNARO | 235-5350 | 7 |
| 217 | XXXX | 00 | |
| 220A★ | **CARSONS DENTAL LAB** | **234-5151** | |
| 223★ | **CHANG ROBT MED CORP** | **233-4253** | 3 |
| 229 | XXXX | 00 | |
| 232 | XXXX | 00 | |
| 236 | JOYCE MICHAEL | 234-1387 | |
| 237 | SALGADO PIERRE F MD | 233-2083 | |
| 242★ | **AMER FAMILY SAUNA** | **234-1012** | 8 |
| 243 | XXXX | 00 | |
| 250★ | **PLANNED PARENTHOOD** | **233-1900** | 5 |
| 256 | XXXX | 00 | |
| 315 | RAYMOND APTS | | |
| | ALM L M | 233-9404 | +0 |
| | BAILEY CHRIS | 235-4575 | +0 |
| | COFFIN F | 233-5107 | 3 |
| | HAIDARI NASROLLAH | 232-0461 | +0 |
| | MARTIN M | 235-5454 | +0 |
| | MCCURDY KEN | 237-2557 | +0 |
| | QUASH K | 235-5454 | +0 |
| 1 | RAMSEY ELSIE | 233-5305 | |
| 315 | | | |
| 330★ | **RICHMND CTY MANPOWR** | **231-2070** | +0 |
| 342 | JACKSON ROBT MRS | 529-0253 | 3 |
| 516 | XXXX | 00 | |
| 520 | XXXX | 00 | |
| 522 | SANBORN G | 234-7482 | 4 |
| 526 | BICE J C | 234-0209 | |
| | BICE LELAND F | 234-0209 | +0 |
| 531 | XXXX | 00 | |
| 534 | SENECHAL ELSIE A | 232-1598 | 8 |
| 540 | LANG DON | 236-8668 | 9 |
| 544 | KUGELMAN CALVIN A | 234-1701 | |
| 552 | GERLOFF WALTER | 232-6876 | |
| 555 | HASKINS JOELILLIE | 234-0630 | 8 |
| 561 | BROOKS LEVON E | 232-6491 | +0 |
| 567 | XXXX | 00 | |
| 570 | XXXX | 00 | |
| 571 | MCCOY MICHAEL | 237-1353 | +0 |
| 574 | XXXX | 00 | |
| 575 | NYLAND PAUL RICHARD | 236-8069 | 9 |
| 578 | GRAVES BILL M | 232-0518 | |
| 579 | MAY S J | 235-1302 | 5 |
| 608 | ANDERSON EARNEST | 234-7793 | 7 |
| 609 | XXXX | 00 | |
| 611 | CHRISTENSEN P MRS | 234-5096 | |
| 614 | THIERRY FELIX JR | 235-2272 | 4 |
| 615 | XXXX | 00 | |
| 621 | XXXX | 00 | |
| 625 | XXXX | 00 | |
| 626 | REAMY E S | 233-1801 | |
| 627 | XXXX | 00 | |
| 628 | THOMPSON HARRY C | 234-0737 | |
| 630 | XXXX | 00 | |
| 631 | KLEISER J C | 232-2569 | |
| 633 | XXXX | 00 | |
| 638 | QUADROS DAVID | 235-9921 | 5 |
| 647 | XXXX | 00 | |
| 656 | REID JIM | 236-0302 | 2 |
| | REID WM E | 236-0302 | 2 |
| 660 | MARTINEZ JOHN A | 237-0487 | +0 |
| 700 | XXXX | 00 | |
| 714 | XXXX | 00 | |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

**25TH ST 1980**

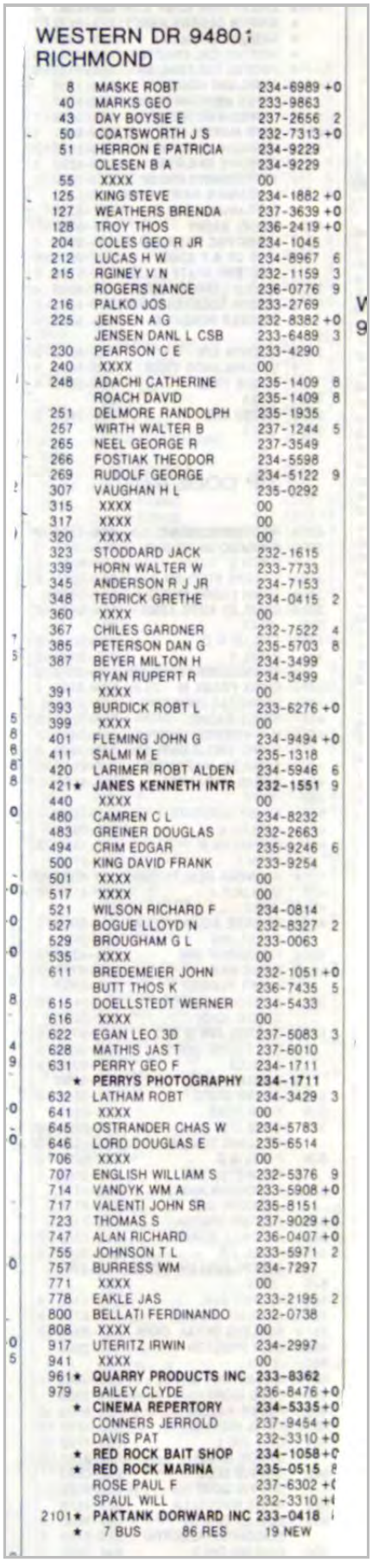
# ZIP CODE 94806
# SAN PABLO

| | | | |
|---|---|---|---|
| 1311 | BAILEY GERALDINE | 237-7469 | +0 |
| 1319 | TEMPLE STEVEN | 233-3981 | 8 |
| 1327 | XXXX | 00 | |
| 1402 | INGRAM DONNA | 235-1245 | 7 |
| 1412 | SINDICICH JOHN JR | 233-6200 | 2 |
| 1415 | LOWRANCE JOHN S | 234-5656 | |
| 1421 | XXXX | 00 | |
| 1427 | PENCE STEPHEN M | 234-3982 | 5 |
| 1508 | GOLDMAN ANDREW J | 232-1273 | |
| 1516 | BUSCHELMAN ERVIN C | 237-1503 | |
| 1526 | PETERSON AMOS J | 234-5373 | |
| | PETERSON EVELYN | 234-5373 | |
| 1527 | KING MELVIN L | 237-6656 | +0 |
| 1540 | PLANCHON RUSSELL | 232-6330 | 3 |
| 1545 | XXXX | 00 | |
| 1605 | BATEMAN ROBT | 235-7097 | |
| 1613 | CANHOTO JOSE | 237-6517 | 8 |
| 1614 | XXXX | 00 | |
| 1621 | XXXX | 00 | |
| 1680 | MAK ROBT | 232-6334 | |

* 14 BUS 78 RES 17 NEW

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | Haines Criss-Cross Directory |

# WESTERN DR 1980

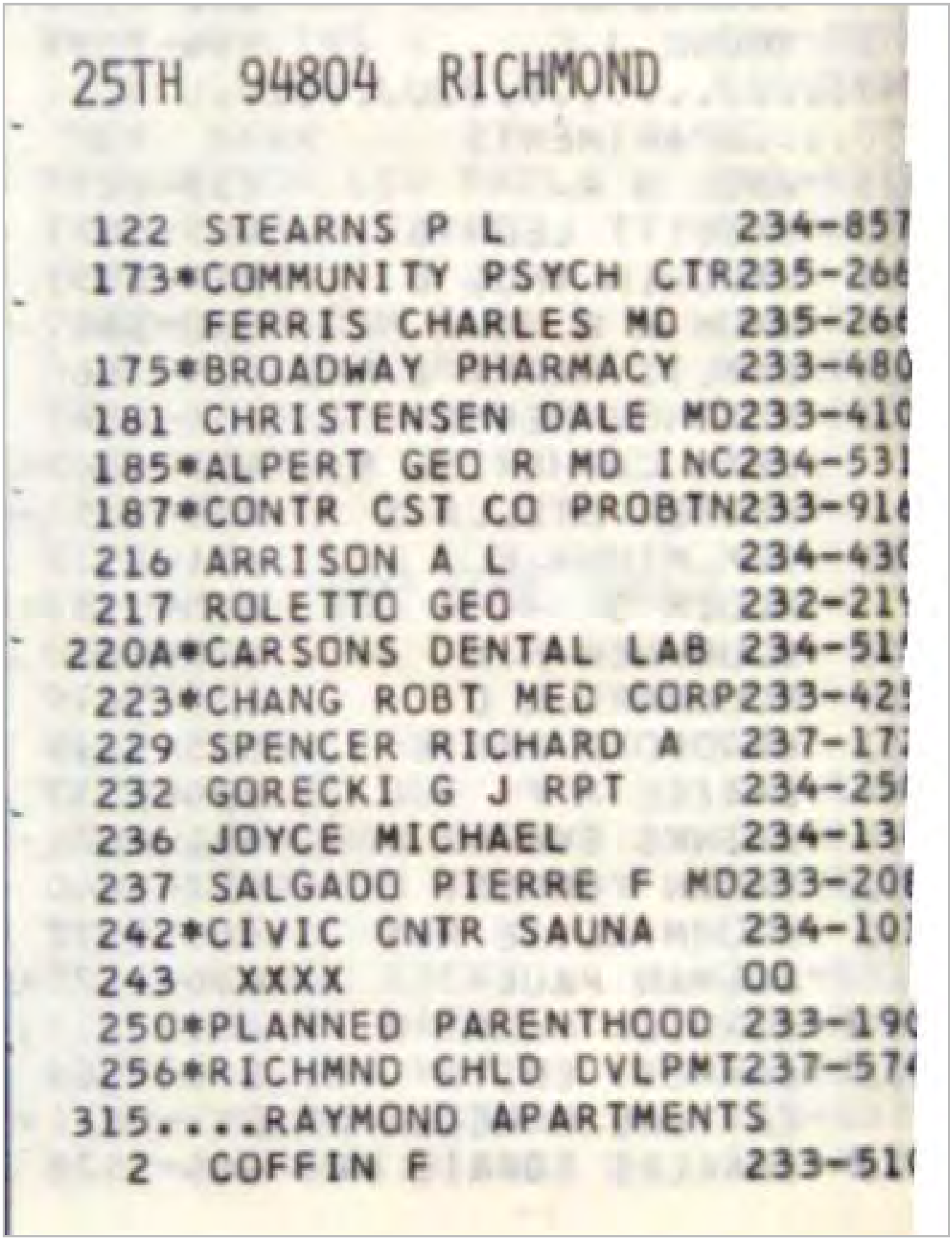


WESTERN DR 9480:
RICHMOND

| | | |
|---|---|---|
| 8 | MASKE ROBT | 234-6989 +0 |
| 40 | MARKS GEO | 233-9863 |
| 43 | DAY BOYSIE E | 237-2656 2 |
| 50 | COATSWORTH J S | 232-7313 +0 |
| 51 | HERRON E PATRICIA | 234-9229 |
| | OLESEN B A | 234-9229 |
| 55 | XXXX | 00 |
| 125 | KING STEVE | 234-1882 +0 |
| 127 | WEATHERS BRENDA | 237-3639 +0 |
| 128 | TROY THOS | 236-2419 +0 |
| 204 | COLES GEO R JR | 234-1045 |
| 212 | LUCAS H W | 234-8967 6 |
| 215 | RGINEY V N | 232-1159 3 |
| | ROGERS NANCE | 236-0776 9 |
| 216 | PALKO JOS | 233-2769 |
| 225 | JENSEN A G | 232-8382 +0 |
| | JENSEN DANL L CSB | 233-6489 3 |
| 230 | PEARSON C E | 233-4290 |
| 240 | XXXX | 00 |
| 248 | ADACHI CATHERINE | 235-1409 8 |
| | ROACH DAVID | 235-1409 8 |
| 251 | DELMORE RANDOLPH | 235-1935 |
| 257 | WIRTH WALTER B | 237-1244 5 |
| 265 | NEEL GEORGE R | 237-3549 |
| 266 | FOSTIAK THEODOR | 234-5598 |
| 269 | RUDOLF GEORGE | 234-5122 9 |
| 307 | VAUGHAN H L | 235-0292 |
| 315 | XXXX | 00 |
| 317 | XXXX | 00 |
| 320 | XXXX | 00 |
| 323 | STODDARD JACK | 232-1615 |
| 339 | HORN WALTER W | 233-7733 |
| 345 | ANDERSON R J JR | 234-7153 |
| 348 | TEDRICK GRETHE | 234-0415 2 |
| 360 | XXXX | 00 |
| 367 | CHILES GARDNER | 232-7522 4 |
| 385 | PETERSON DAN G | 235-5703 8 |
| 387 | BEYER MILTON H | 234-3499 |
| | RYAN RUPERT R | 234-3499 |
| 391 | XXXX | 00 |
| 393 | BURDICK ROBT L | 233-6276 +0 |
| 399 | XXXX | 00 |
| 401 | FLEMING JOHN G | 234-9494 +0 |
| 411 | SALMI M E | 235-1318 |
| 420 | LARIMER ROBT ALDEN | 234-5946 6 |
| 421★ | **JANES KENNETH INTR** | **232-1551** 9 |
| 440 | XXXX | 00 |
| 480 | CAMREN C L | 234-8232 |
| 483 | GREINER DOUGLAS | 232-2663 |
| 494 | CRIM EDGAR | 235-9246 6 |
| 500 | KING DAVID FRANK | 233-9254 |
| 501 | XXXX | 00 |
| 517 | XXXX | 00 |
| 521 | WILSON RICHARD F | 234-0814 |
| 527 | BOGUE LLOYD N | 232-8327 2 |
| 529 | BROUGHAM G L | 233-0063 |
| 535 | XXXX | 00 |
| 611 | BREDEMEIER JOHN | 232-1051 +0 |
| | BUTT THOS K | 236-7435 5 |
| 615 | DOELLSTEDT WERNER | 234-5433 |
| 616 | XXXX | 00 |
| 622 | EGAN LEO 3D | 237-5083 3 |
| 628 | MATHIS JAS T | 237-6010 |
| 631 | PERRY GEO F | 234-1711 |
| ★ | **PERRYS PHOTOGRAPHY** | **234-1711** |
| 632 | LATHAM ROBT | 234-3429 3 |
| 641 | XXXX | 00 |
| 645 | OSTRANDER CHAS W | 234-5783 |
| 646 | LORD DOUGLAS E | 235-6514 |
| 706 | XXXX | 00 |
| 707 | ENGLISH WILLIAM S | 232-5376 9 |
| 714 | VANDYK WM A | 233-5908 +0 |
| 717 | VALENTI JOHN SR | 235-8151 |
| 723 | THOMAS S | 237-9029 +0 |
| 747 | ALAN RICHARD | 236-0407 +0 |
| 755 | JOHNSON T L | 233-5971 2 |
| 757 | BURRESS WM | 234-7297 |
| 771 | XXXX | 00 |
| 778 | EAKLE JAS | 233-2195 2 |
| 800 | BELLATI FERDINANDO | 232-0738 |
| 808 | XXXX | 00 |
| 917 | UTERITZ IRWIN | 234-2997 |
| 941 | XXXX | 00 |
| 961★ | **QUARRY PRODUCTS INC** | **233-8362** |
| 979 | BAILEY CLYDE | 236-8476 +0 |
| ★ | **CINEMA REPERTORY** | **234-5335** +0 |
| | CONNERS JERROLD | 237-9454 +0 |
| | DAVIS PAT | 232-3310 +0 |
| ★ | **RED ROCK BAIT SHOP** | **234-1058** +0 |
| ★ | **RED ROCK MARINA** | **235-0515** 8 |
| | ROSE PAUL F | 237-6302 +0 |
| | SPAUL WILL | 232-3310 +0 |
| 2101★ | **PAKTANK DORWARD INC** | **233-0418** |
| ★ | 7 BUS 86 RES | 19 NEW |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

**25TH ST 1975**

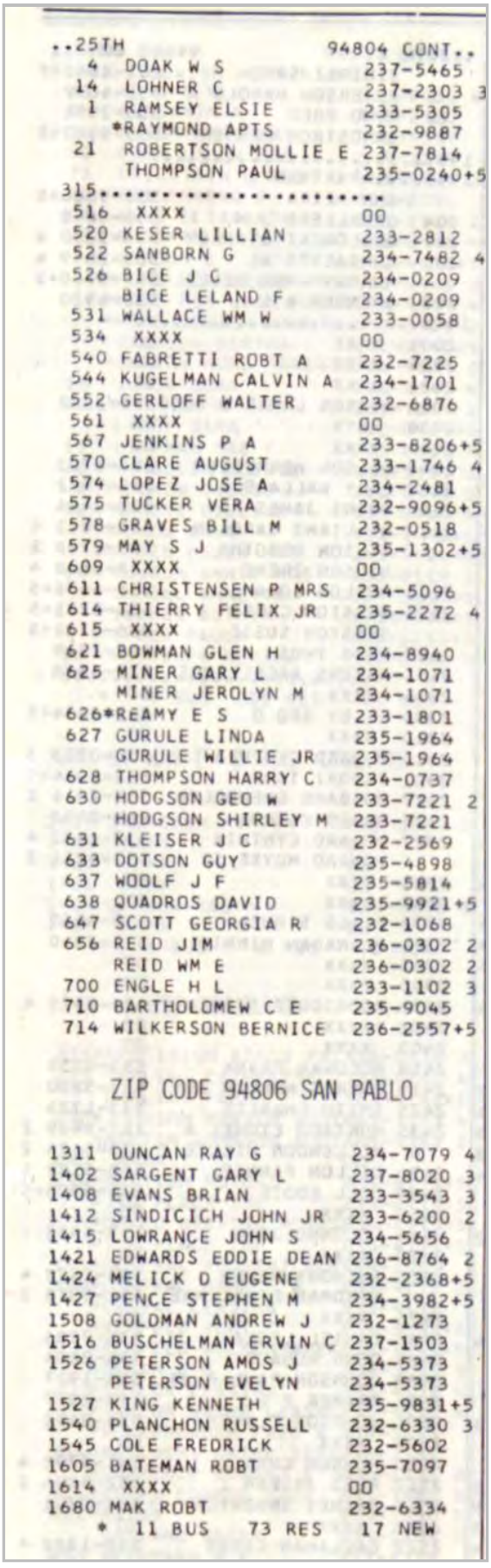


25TH 94804 RICHMOND

122 STEARNS P L 234-85
173*COMMUNITY PSYCH CTR 235-26
FERRIS CHARLES MD 235-26
175*BROADWAY PHARMACY 233-48
181 CHRISTENSEN DALE MD 233-41
185*ALPERT GEO R MD INC 234-53
187*CONTR CST CO PROBTN 233-91
216 ARRISON A L 234-43
217 ROLETTO GEO 232-21
220A*CARSONS DENTAL LAB 234-51
223*CHANG ROBT MED CORP 233-42
229 SPENCER RICHARD A 237-17
232 GORECKI G J RPT 234-25
236 JOYCE MICHAEL 234-13
237 SALGADO PIERRE F MD 233-20
242*CIVIC CNTR SAUNA 234-10
243 XXXX OO
250*PLANNED PARENTHOOD 233-19
256*RICHMND CHLD DVLPMT 237-57
315....RAYMOND APARTMENTS
2 COFFIN F 233-51

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# 25TH ST 1975



..25TH 94804 CONT..

| | | |
|---|---|---|
| 4 | DOAK W S | 237-5465 |
| 14 | LOHNER C | 237-2303 3 |
| 1 | RAMSEY ELSIE | 233-5305 |
| | *RAYMOND APTS | 232-9887 |
| 21 | ROBERTSON MOLLIE E | 237-7814 |
| | THOMPSON PAUL | 235-0240+5 |
| 315 | ..... | |
| 516 | XXXX | 00 |
| 520 | KESER LILLIAN | 233-2812 |
| 522 | SANBORN G | 234-7482 4 |
| 526 | BICE J C | 234-0209 |
| | BICE LELAND F | 234-0209 |
| 531 | WALLACE WM W | 233-0058 |
| 534 | XXXX | 00 |
| 540 | FABRETTI ROBT A | 232-7225 |
| 544 | KUGELMAN CALVIN A | 234-1701 |
| 552 | GERLOFF WALTER | 232-6876 |
| 561 | XXXX | 00 |
| 567 | JENKINS P A | 233-8206+5 |
| 570 | CLARE AUGUST | 233-1746 4 |
| 574 | LOPEZ JOSE A | 234-2481 |
| 575 | TUCKER VERA | 232-9096+5 |
| 578 | GRAVES BILL M | 232-0518 |
| 579 | MAY S J | 235-1302+5 |
| 609 | XXXX | 00 |
| 611 | CHRISTENSEN P MRS | 234-5096 |
| 614 | THIERRY FELIX JR | 235-2272 4 |
| 615 | XXXX | 00 |
| 621 | BOWMAN GLEN H | 234-8940 |
| 625 | MINER GARY L | 234-1071 |
| | MINER JEROLYN M | 234-1071 |
| 626 | *REAMY E S | 233-1801 |
| 627 | GURULE LINDA | 235-1964 |
| | GURULE WILLIE JR | 235-1964 |
| 628 | THOMPSON HARRY C | 234-0737 |
| 630 | HODGSON GEO W | 233-7221 2 |
| | HODGSON SHIRLEY M | 233-7221 |
| 631 | KLEISER J C | 232-2569 |
| 633 | DOTSON GUY | 235-4898 |
| 637 | WOOLF J F | 235-5814 |
| 638 | QUADROS DAVID | 235-9921+5 |
| 647 | SCOTT GEORGIA R | 232-1068 |
| 656 | REID JIM | 236-0302 2 |
| | REID WM E | 236-0302 2 |
| 700 | ENGLE H L | 233-1102 3 |
| 710 | BARTHOLOMEW C E | 235-9045 |
| 714 | WILKERSON BERNICE | 236-2557+5 |

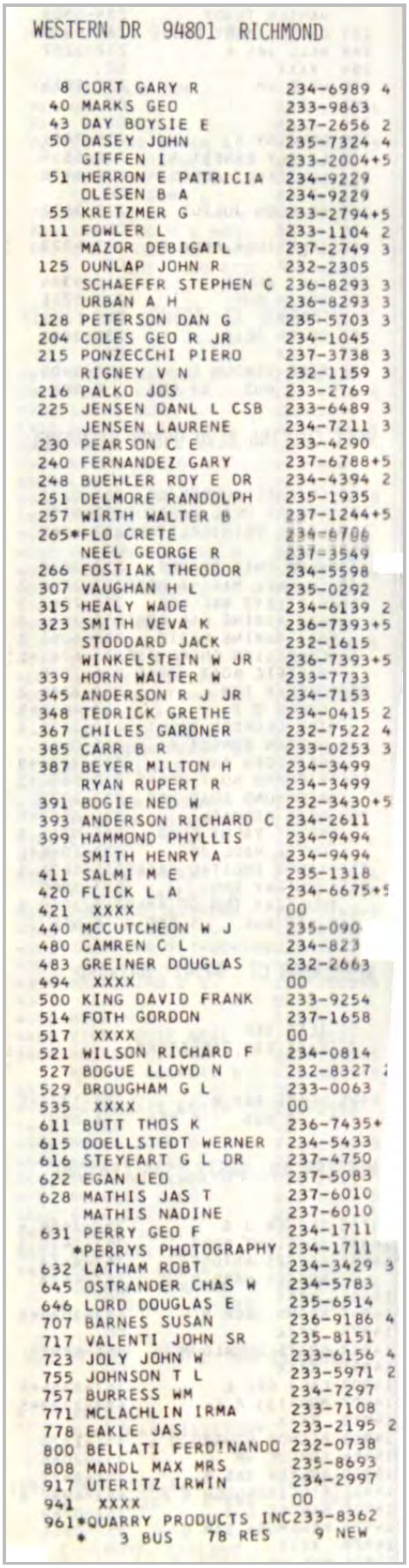
ZIP CODE 94806 SAN PABLO

| | | |
|---|---|---|
| 1311 | DUNCAN RAY G | 234-7079 4 |
| 1402 | SARGENT GARY L | 237-8020 3 |
| 1408 | EVANS BRIAN | 233-3543 3 |
| 1412 | SINDICICH JOHN JR | 233-6200 2 |
| 1415 | LOWRANCE JOHN S | 234-5656 |
| 1421 | EDWARDS EDDIE DEAN | 236-8764 2 |
| 1424 | MELICK D EUGENE | 232-2368+5 |
| 1427 | PENCE STEPHEN M | 234-3982+5 |
| 1508 | GOLDMAN ANDREW J | 232-1273 |
| 1516 | BUSCHELMAN ERVIN C | 237-1503 |
| 1526 | PETERSON AMOS J | 234-5373 |
| | PETERSON EVELYN | 234-5373 |
| 1527 | KING KENNETH | 235-9831+5 |
| 1540 | PLANCHON RUSSELL | 232-6330 3 |
| 1545 | COLE FREDRICK | 232-5602 |
| 1605 | BATEMAN ROBT | 235-7097 |
| 1614 | XXXX | 00 |
| 1680 | MAK ROBT | 232-6334 |

* 11 BUS 73 RES 17 NEW

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | Haines Criss-Cross Directory |

# WESTERN DR 1975



WESTERN DR 94801 RICHMOND

| | | |
|---|---|---|
| 8 | CORT GARY R | 234-6989 4 |
| 40 | MARKS GEO | 233-9863 |
| 43 | DAY BOYSIE E | 237-2656 2 |
| 50 | DASEY JOHN | 235-7324 4 |
| | GIFFEN I | 233-2004+5 |
| 51 | HERRON E PATRICIA | 234-9229 |
| | OLESEN B A | 234-9229 |
| 55 | KRETZMER G | 233-2794+5 |
| 111 | FOWLER L | 233-1104 2 |
| | MAZOR DEBIGAIL | 237-2749 3 |
| 125 | DUNLAP JOHN R | 232-2305 |
| | SCHAEFER STEPHEN C | 236-8293 3 |
| | URBAN A H | 236-8293 3 |
| 128 | PETERSON DAN G | 235-5703 3 |
| 204 | COLES GEO R JR | 234-1045 |
| 215 | PONZECCHI PIERO | 237-3738 3 |
| | RIGNEY V N | 232-1159 3 |
| 216 | PALKO JOS | 233-2769 |
| 225 | JENSEN DANL L CSB | 233-6489 3 |
| | JENSEN LAURENE | 234-7211 3 |
| 230 | PEARSON C E | 233-4290 |
| 240 | FERNANDEZ GARY | 237-6788+5 |
| 248 | BUEHLER ROY E DR | 234-4394 2 |
| 251 | DELMORE RANDOLPH | 235-1935 |
| 257 | WIRTH WALTER B | 237-1244+5 |
| 265 | *FLO CRETE | 234-6706 |
| | NEEL GEORGE R | 237-3549 |
| 266 | FOSTIAK THEODOR | 234-5598 |
| 307 | VAUGHAN H L | 235-0292 |
| 315 | HEALY WADE | 234-6139 2 |
| 323 | SMITH VEVA K | 236-7393+5 |
| | STODDARD JACK | 232-1615 |
| | WINKELSTEIN W JR | 236-7393+5 |
| 339 | HORN WALTER W | 233-7733 |
| 345 | ANDERSON R J JR | 234-7153 |
| 348 | TEDRICK GRETHE | 234-0415 2 |
| 367 | CHILES GARDNER | 232-7522 4 |
| 385 | CARR B R | 233-0253 3 |
| 387 | BEYER MILTON H | 234-3499 |
| | RYAN RUPERT R | 234-3499 |
| 391 | BOGIE NED W | 232-3430+5 |
| 393 | ANDERSON RICHARD C | 234-2611 |
| 399 | HAMMOND PHYLLIS | 234-9494 |
| | SMITH HENRY A | 234-9494 |
| 411 | SALMI M E | 235-1318 |
| 420 | FLICK L A | 234-6675+5 |
| 421 | XXXX | 00 |
| 440 | MCCUTCHEON W J | 235-090 |
| 480 | CAMREN C L | 234-823 |
| 483 | GREINER DOUGLAS | 232-2663 |
| 494 | XXXX | 00 |
| 500 | KING DAVID FRANK | 233-9254 |
| 514 | FOTH GORDON | 237-1658 |
| 517 | XXXX | 00 |
| 521 | WILSON RICHARD F | 234-0814 |
| 527 | BOGUE LLOYD N | 232-8327 |
| 529 | BROUGHAM G L | 233-0063 |
| 535 | XXXX | 00 |
| 611 | BUTT THOS K | 236-7435+ |
| 615 | DOELLSTEDT WERNER | 234-5433 |
| 616 | STEYEART G L DR | 237-4750 |
| 622 | EGAN LEO | 237-5083 |
| 628 | MATHIS JAS T | 237-6010 |
| | MATHIS NADINE | 237-6010 |
| 631 | PERRY GEO F | 234-1711 |
| | *PERRYS PHOTOGRAPHY | 234-1711 |
| 632 | LATHAM ROBT | 234-3429 3 |
| 645 | OSTRANDER CHAS W | 234-5783 |
| 646 | LORD DOUGLAS E | 235-6514 |
| 707 | BARNES SUSAN | 236-9186 4 |
| 717 | VALENTI JOHN SR | 235-8151 |
| 723 | JOLY JOHN W | 233-6156 4 |
| 755 | JOHNSON T L | 233-5971 2 |
| 757 | BURRESS WM | 234-7297 |
| 771 | MCLACHLIN IRMA | 233-7108 |
| 778 | EAKLE JAS | 233-2195 2 |
| 800 | BELLATI FERDINANDO | 232-0738 |
| 808 | MANDL MAX MRS | 235-8693 |
| 917 | UTERITZ IRWIN | 234-2997 |
| 941 | XXXX | 00 |
| 961 | *QUARRY PRODUCTS INC | 233-8362 |

* 3 BUS 78 RES 9 NEW

# APPENDIX G
HISTORICAL TOPOGRAPHIC MAPS

Pt Molate

330 25th Street

Richmond, CA 94801

Inquiry Number: 5740188.4

August 05, 2019

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

08/05/19

**Site Name:**

Pt Molate
330 25th Street
Richmond, CA 94801
EDR Inquiry # 5740188.4

**Client Name:**

Terraphase Engineering Inc.
1404 Franklin Street Suite 600
Oakland, CA 94612-0000
Contact: Wendy Bellah

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terraphase Engineering Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

***Search Results:***

**P.O.#** NA

**Project:** 0351.001.001

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 37.94778 37° 56' 52" North |
| **Longitude:** | -122.413997 -122° 24' 50" West |
| **UTM Zone:** | Zone 10 North |
| **UTM X Meters:** | 551486.18 |
| **UTM Y Meters:** | 4200183.04 |
| **Elevation:** | 193.91' above sea level |

**Maps Provided:**

| | |
|---|---|
| 2012 | 1915 |
| 1996 | 1899 |
| 1995 | 1895 |
| 1980 | |
| 1973 | |
| 1959 | |
| 1948 | |
| 1947 | |

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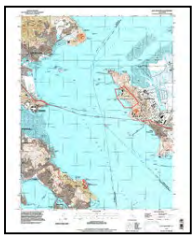
## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets

San Quentin
2012
7.5-minute, 24000

### 1996 Source Sheets



San Quentin
1996
7.5-minute, 24000
Aerial Photo Revised 1993

### 1995 Source Sheets

San Quentin
1995
7.5-minute, 24000
Aerial Photo Revised 1993

### 1980 Source Sheets

San Quentin
1980
7.5-minute, 24000
Aerial Photo Revised 1979

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1973 Source Sheets

San Quentin
1973
7.5-minute, 24000
Aerial Photo Revised 1973

### 1959 Source Sheets

San Quentin
1959
7.5-minute, 24000
Aerial Photo Revised 1958

### 1948 Source Sheets

San Quentin
1948
7.5-minute, 24000
Aerial Photo Revised 1947

### 1947 Source Sheets

San Quentin
1947
7.5-minute, 24000
Aerial Photo Revised 1947

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1915 Source Sheets

San Francisco
1915
15-minute, 62500

### 1899 Source Sheets

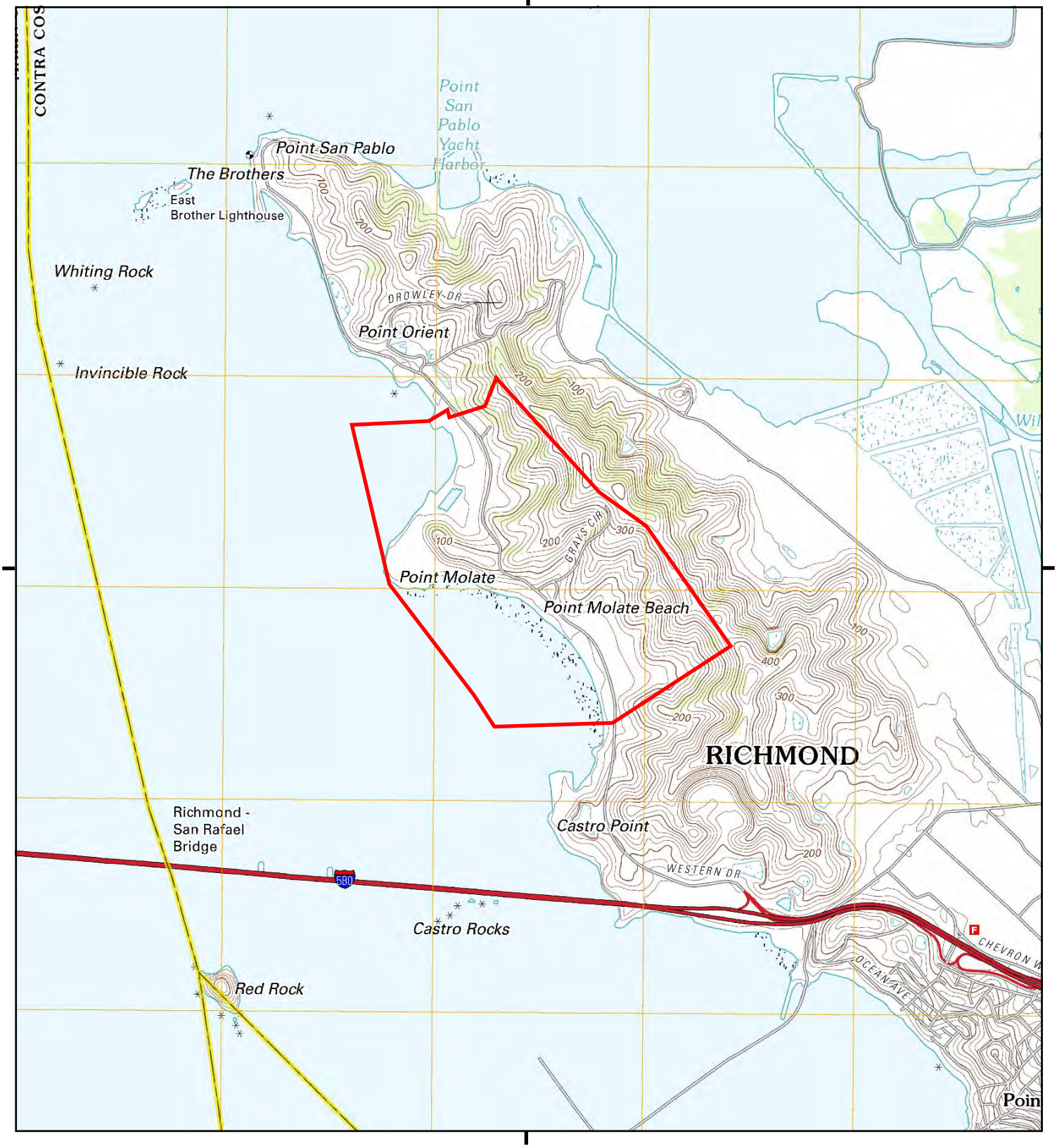
San Francisco
1899
15-minute, 62500

### 1895 Source Sheets

San Francisco
1895
15-minute, 62500

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

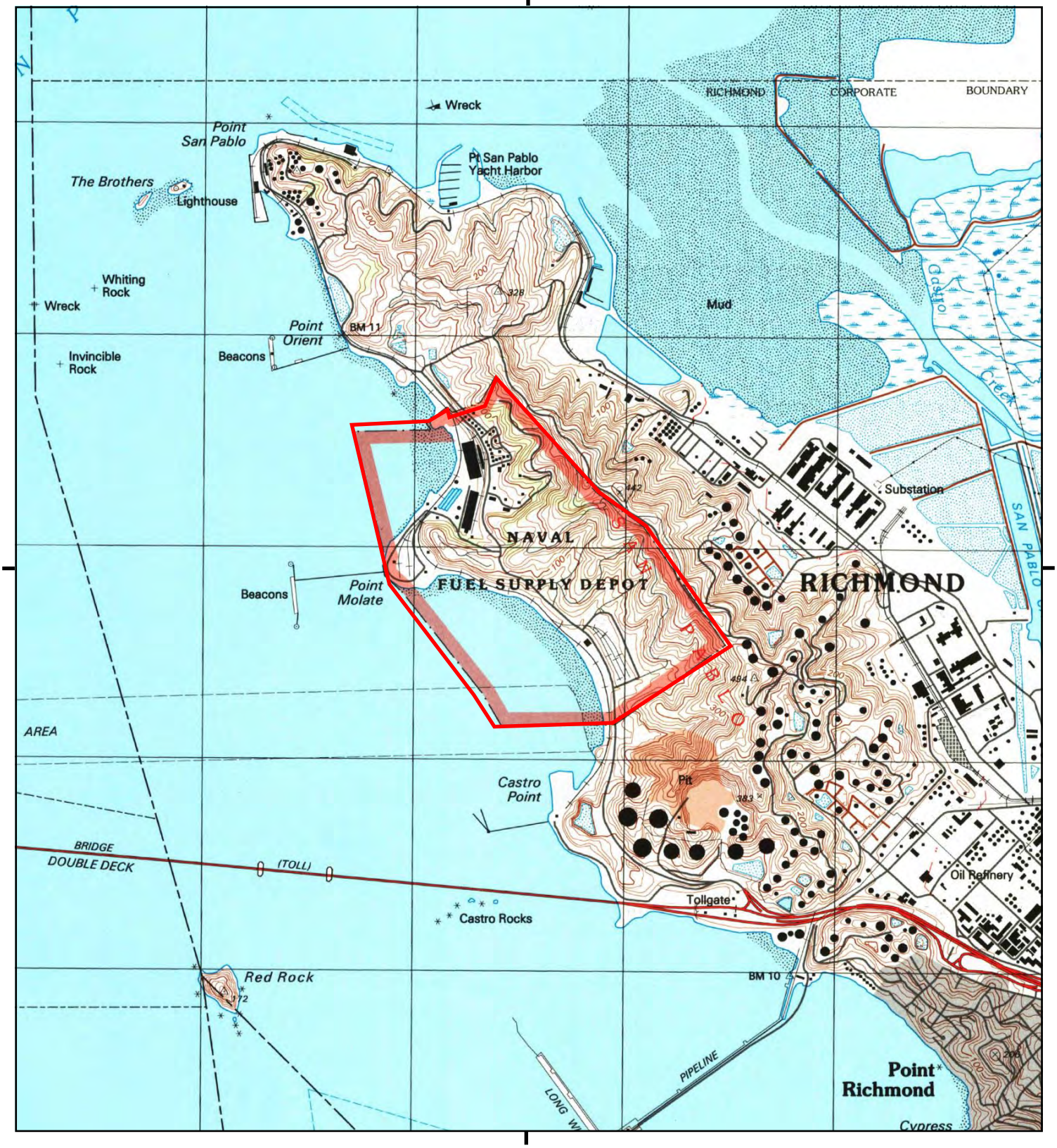
TP, San Quentin, 2012, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N

# Historical Topo Map

1996




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

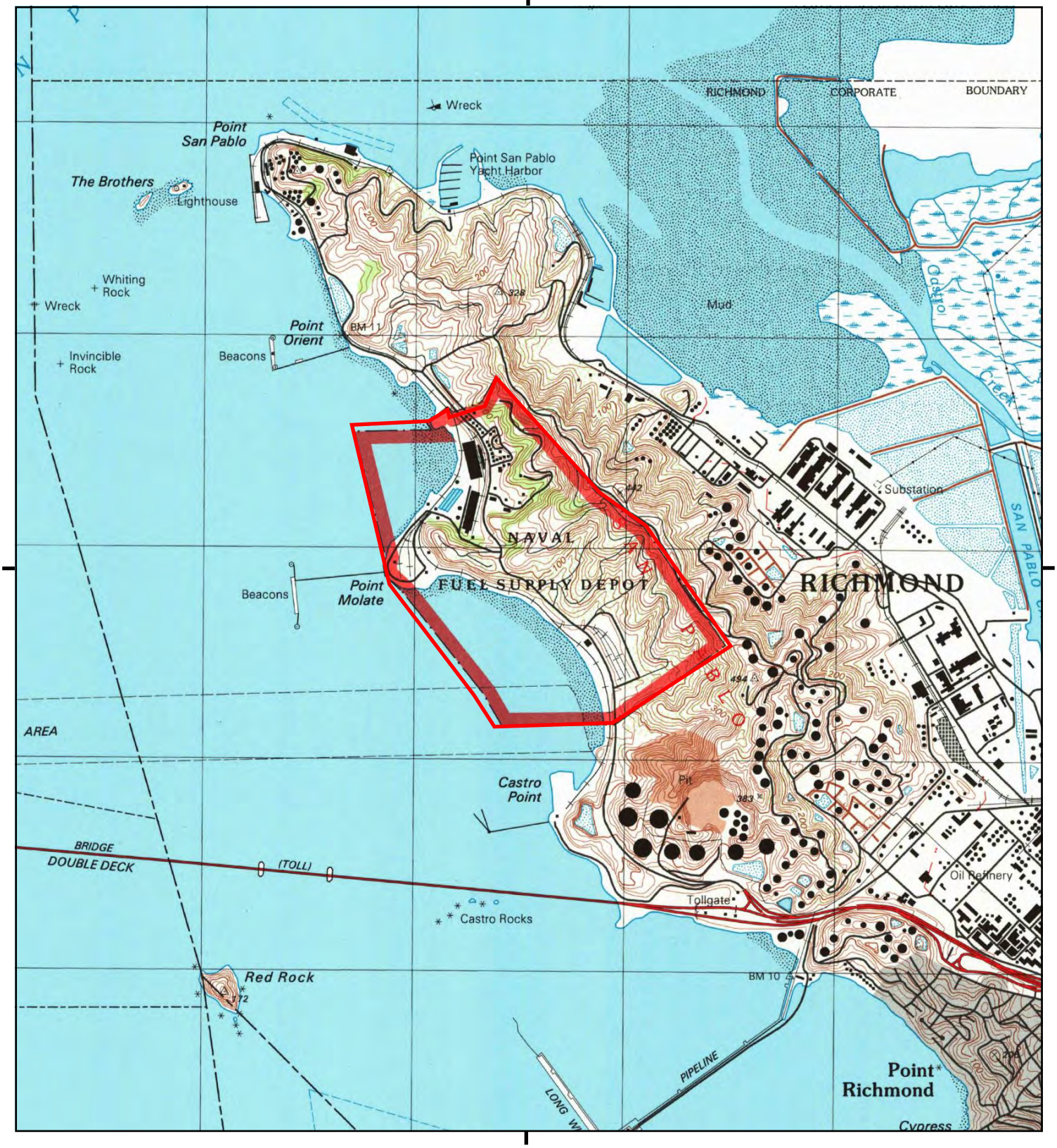
TP, San Quentin, 1996, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N

# Historical Topo Map

1995

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W E
SW S SE

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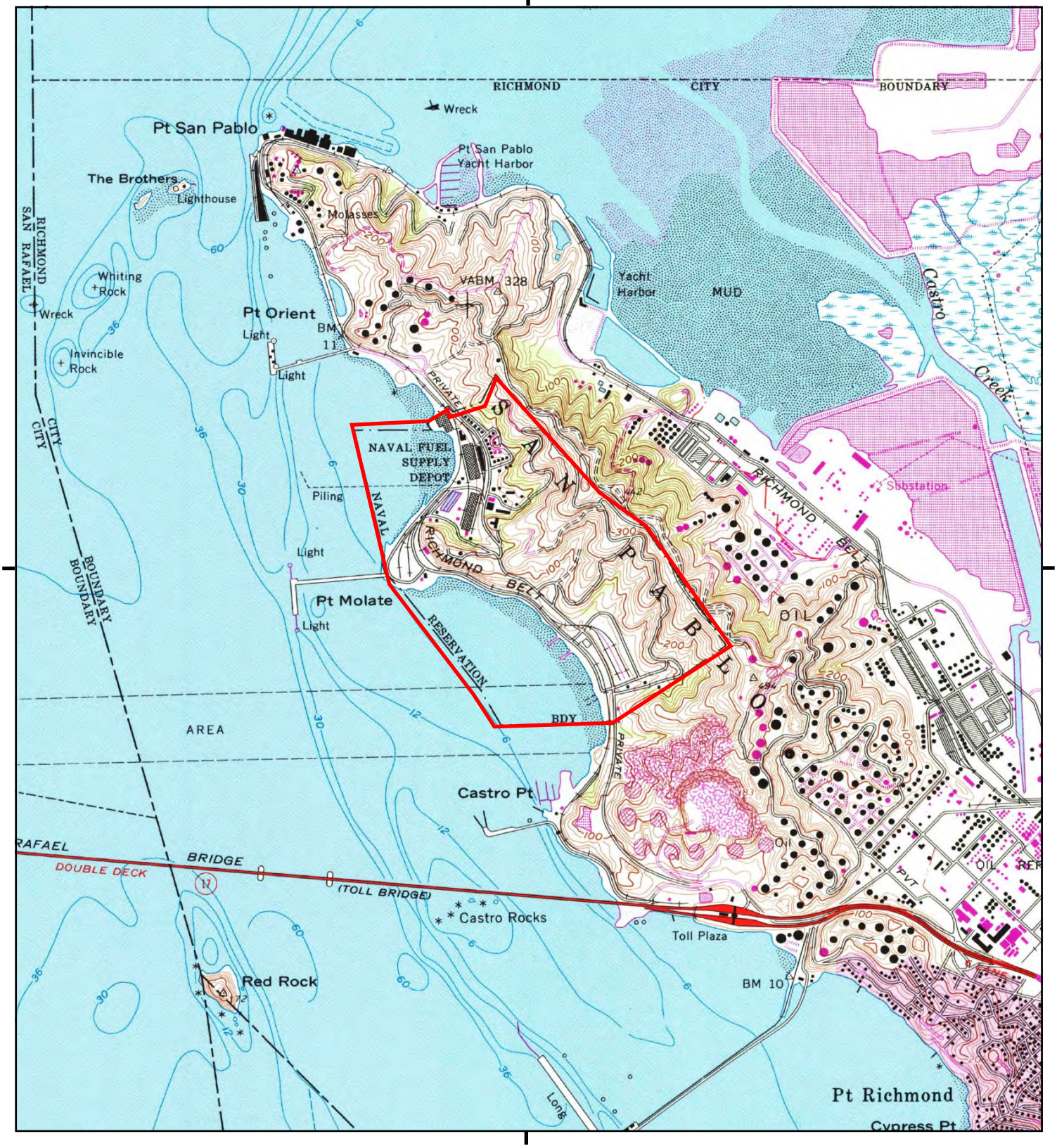
SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N

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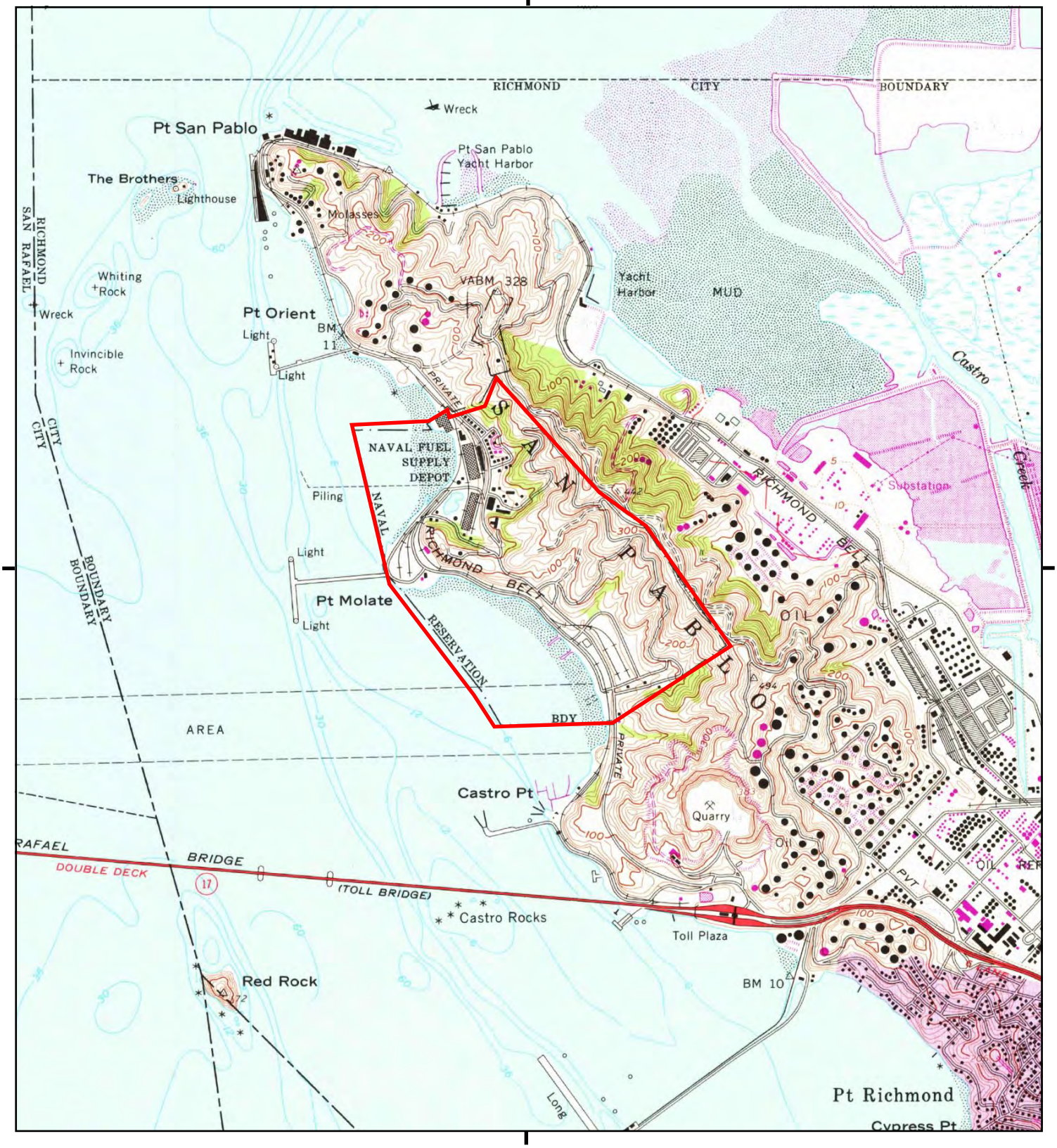
W E
SW S SE

TP, San Quentin, 1980, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

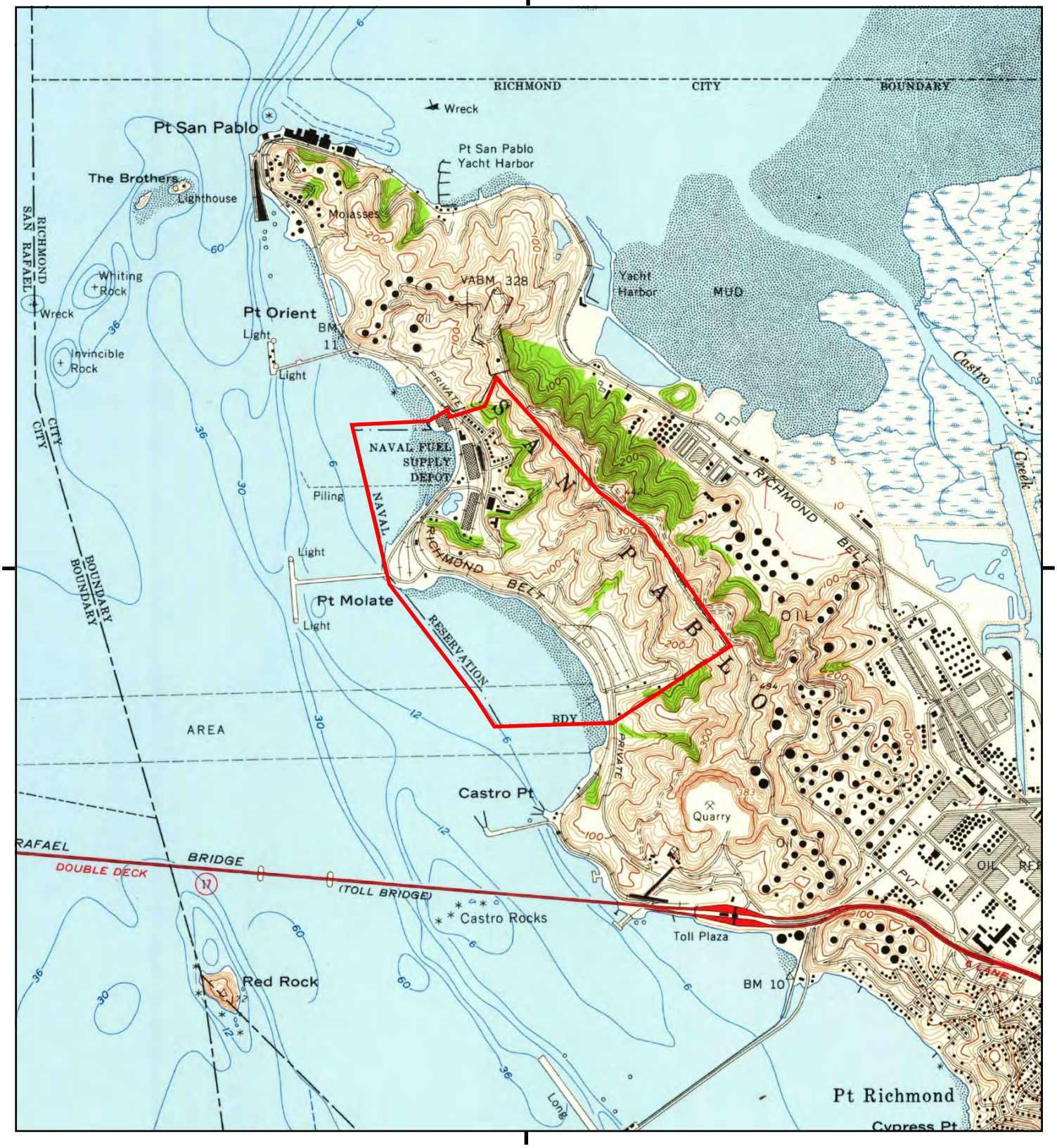
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Quentin, 1973, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

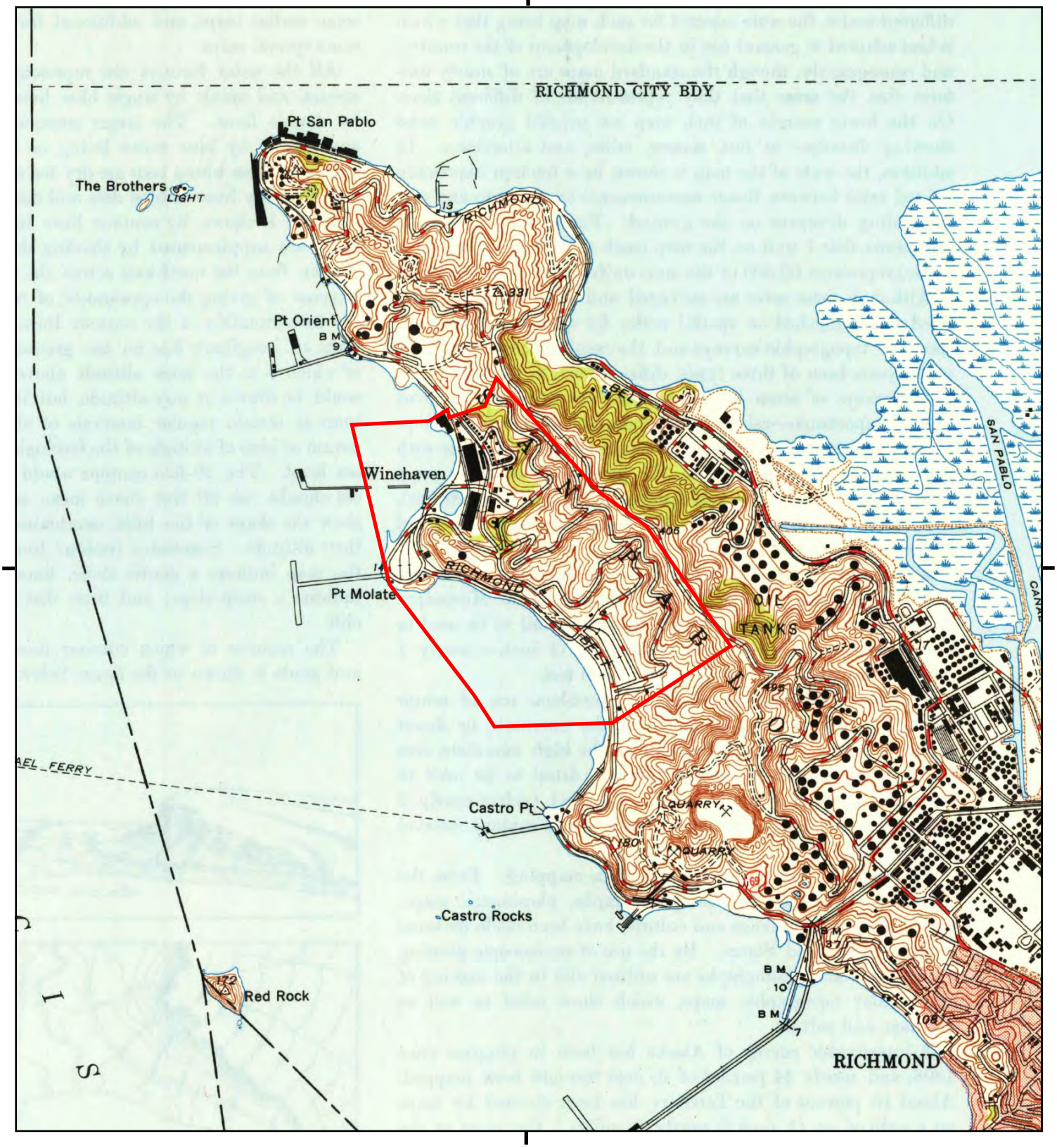
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Quentin, 1959, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

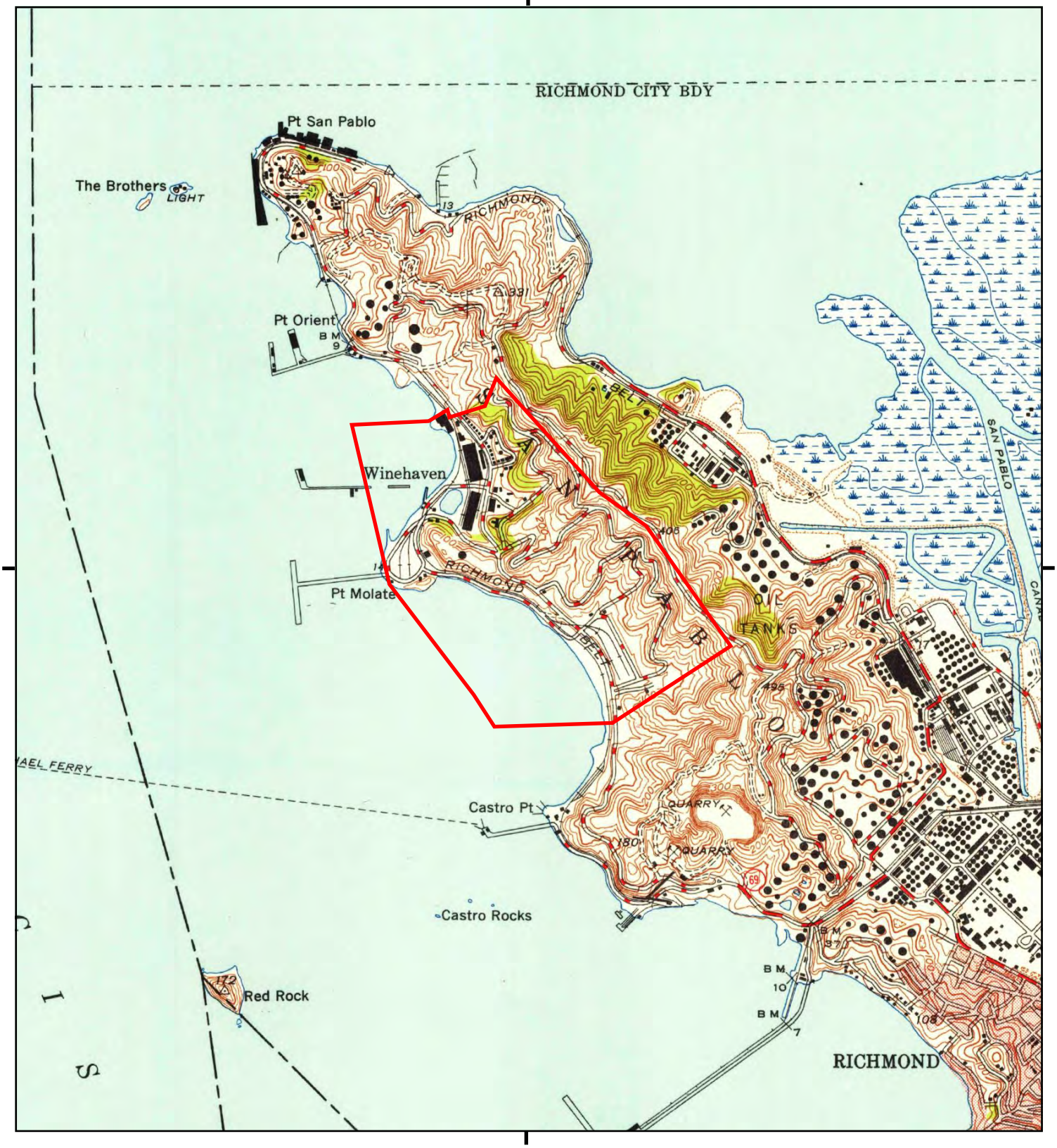
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Quentin, 1948, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

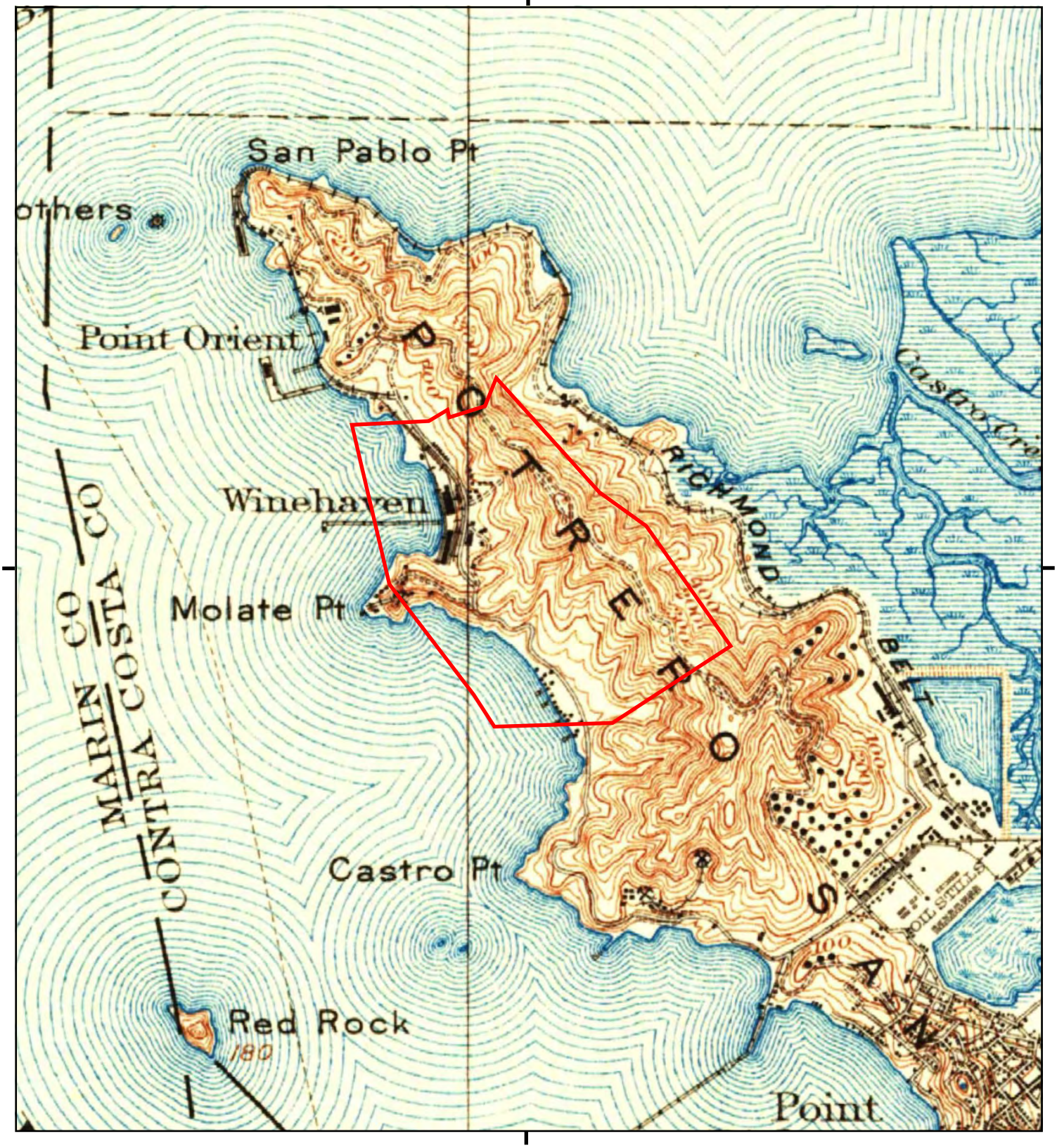
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Quentin, 1947, 7.5-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

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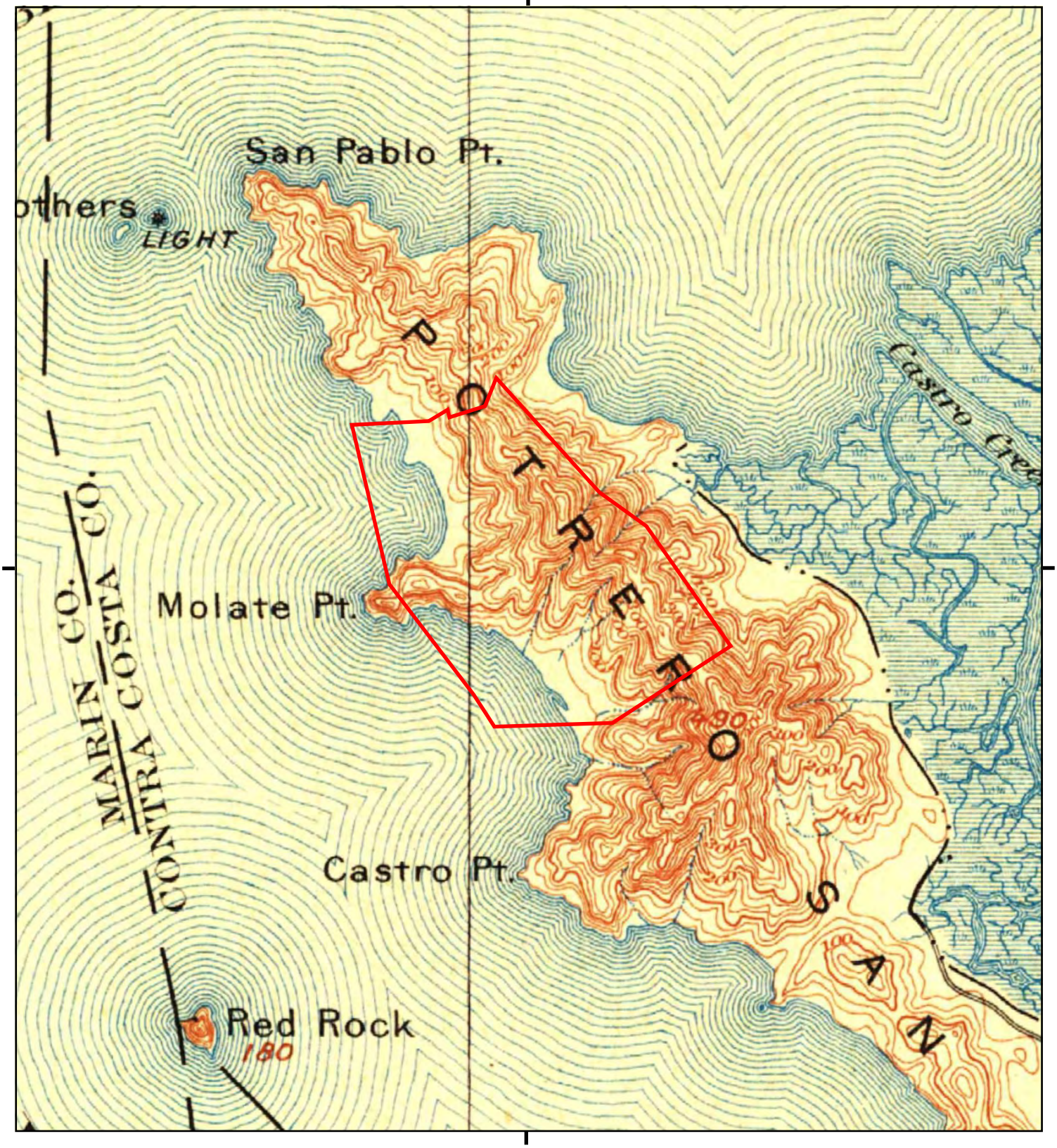
NW N NE
W E
SW S SE

TP, San Francisco, 1915, 15-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

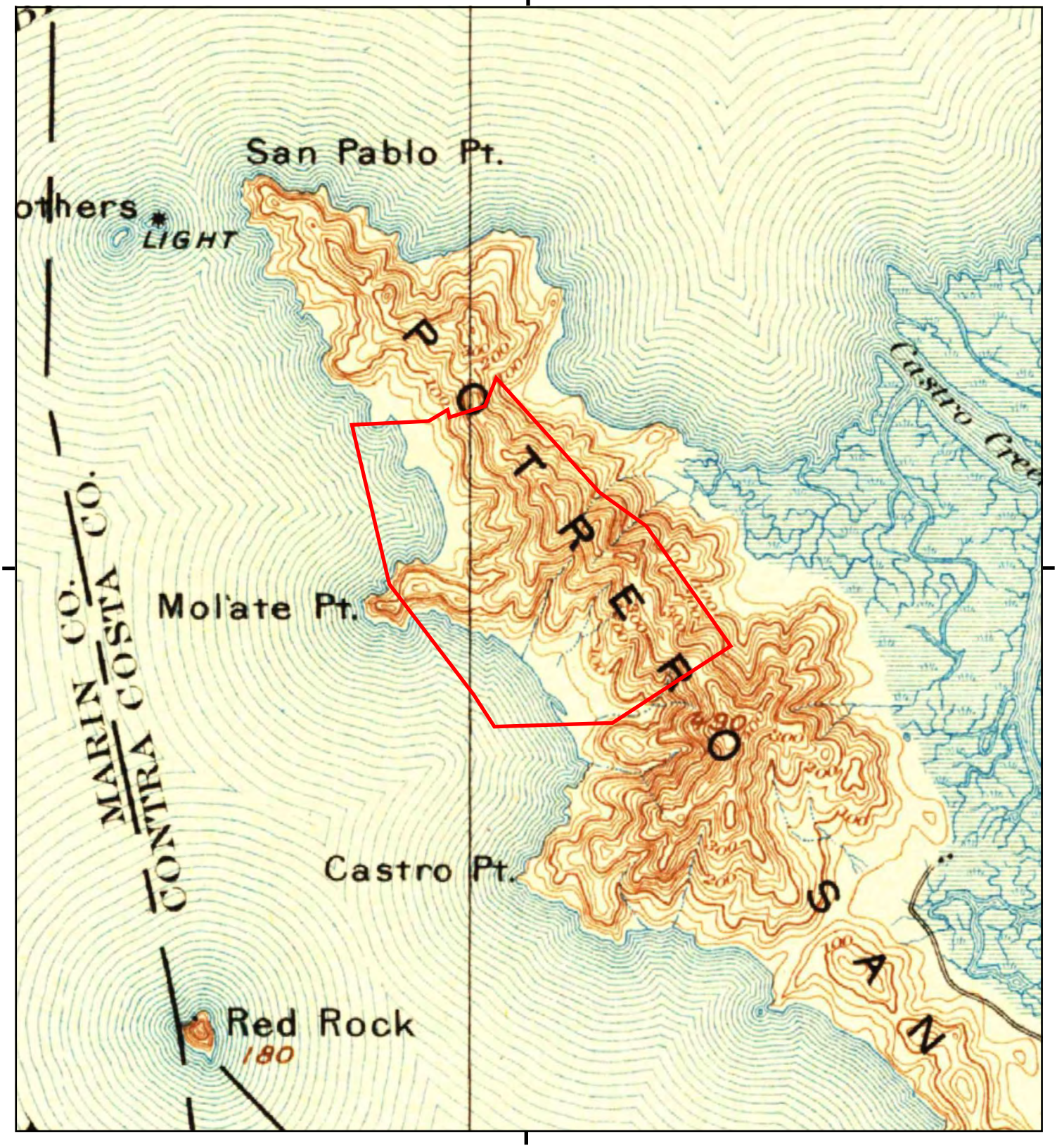
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Francisco, 1899, 15-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Francisco, 1895, 15-minute

SITE NAME: Pt Molate
ADDRESS: 330 25th Street
Richmond, CA 94801
CLIENT: Terraphase Engineering Inc.

N

# APPENDIX H
SANBORN CERTIFICATION OF NO COVERAGE

Pt Molate

330 25th Street

Richmond, CA 94801

Inquiry Number: 5740188.3

August 05, 2019

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

08/05/19

**Site Name:**

Pt Molate
330 25th Street
Richmond, CA 94801
EDR Inquiry # 5740188.3

**Client Name:**

Terraphase Engineering Inc.
1404 Franklin Street Suite 600
Oakland, CA 94612-0000
Contact: Wendy Bellah

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Terraphase Engineering Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

**Certification #** 2033-4AEF-AE68

**PO #** NA

**Project** 0351.001.001

**UNMAPPED PROPERTY**

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 2033-4AEF-AE68

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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# APPENDIX I
EDR RADIUS REPORT

**Pt Molate**
330 25th Street
Richmond, CA 94801

Inquiry Number: 5740188.2s
August 05, 2019

# The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

330 25TH STREET
RICHMOND, CA 94801

### COORDINATES

| | |
|---|---|
| Latitude (North): | 37.9477800 - 37° 56' 52.00'' |
| Longitude (West): | 122.4139970 - 122° 24' 50.38'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 551487.4 |
| UTM Y (Meters): | 4199977.5 |
| Elevation: | 194 ft. above sea level |

## USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 5641122 SAN QUENTIN, CA |
| Version Date: | 2012 |

## AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20140608 |
| Source: | USDA |

# MAPPED SITES SUMMARY

Target Property Address:
330 25TH STREET
RICHMOND, CA 94801

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | POINT MOLATE IR SITE | NFD POINT MOLATE - 3 | SWF/LF, CERS | | TP |
| A2 | NAVAL FUEL DEPOT POI | NFD POINT MOLATE / 3 | SWF/LF, CERS | | TP |
| A3 | NAVAL FUEL DEPOT POI | NFD POINT MOLATE / 3 | RGA LF | | TP |
| A4 | POINT MOLATE IR SITE | NFD POINT MOLATE - 3 | RGA LF | | TP |
| B5 | RICHMOND (POINT MOLA | RANGE RD | CERS | Higher | 1 ft. |
| B6 | RICHMOND (POINT MOLA | RANGE RD | MILITARY PRIV SITES | Higher | 1 ft. |
| C7 | NFD POINT MOLATE SIT | POINT MOLATE | CERS | Lower | 1 ft. |
| 8 | RICHMOND (POINT MOLA | F RD | MILITARY PRIV SITES, CERS | Lower | 1 ft. |
| D9 | RICHMOND (POINT MOLA | MAIN RD | CERS | Lower | 1 ft. |
| D10 | RICHMOND (POINT MOLA | MAIN RD | MILITARY PRIV SITES | Lower | 1 ft. |
| C11 | RICHMOND (POINT MOLA | POINT MOLATE | MILITARY PRIV SITES | Lower | 1 ft. |
| E12 | TLHUS INC. | 2055 WESTERN DR | HAZNET | Lower | 1 ft. |
| E13 | PACIFIC MOLASSES COM | 2055 WESTERN DR | FINDS | Lower | 1 ft. |
| E14 | TLHUS, INC. | 2055 WESTERN DR | LUST, CPS-SLIC, HAZNET, HIST CORTESE, NPDES,... | Lower | 1 ft. |
| E15 | PACIFIC MOLASSES COM | 2055 WESTERN DR | RGA LUST | Lower | 1 ft. |
| E16 | UNITED MOLASSES | 2055 WESTERN DR | HAZNET | Lower | 1 ft. |
| E17 | PORT OF RICHMOND TER | 2055 WESTERN DRIVE | FINDS | Lower | 1 ft. |
| F18 | RICHMOND (POINT MOLA | NFD POINT MOLATE | MILITARY PRIV SITES | Higher | 1 ft. |
| F19 | RICHMOND (POINT MOLA | NFD POINT MOLATE | CERS | Higher | 1 ft. |
| G20 | RICHMOND (POINT MOLA | DIESEL RD | CERS | Lower | 1 ft. |
| 21 | GW MON & NPDES PACKA | WESTERN ROAD | CPS-SLIC, CERS | Lower | 1 ft. |
| H22 | POINT MOLATE NAVAL F | | CIWQS | Lower | 1 ft. |
| H23 | POINT MOLATE NAVAL F | | CERS | Lower | 1 ft. |
| G24 | RICHMOND (POINT MOLA | DIESEL RD | MILITARY PRIV SITES | Lower | 1 ft. |
| I25 | PACKAGED GROUNDWATER | WESTERN DRIVE | ENF, CIWQS | Lower | 1 ft. |
| J26 | RICHMOND (POINT MOLA | G ROAD | CERS | Higher | 1 ft. |
| J27 | RICHMOND (POINT MOLA | G ROAD | MILITARY PRIV SITES | Higher | 1 ft. |
| 28 | RICHMOND (POINT MOLA | | CERS | Lower | 1 ft. |
| A29 | DUTRA MATERIALS | | US MINES | Lower | 1 ft. |
| I30 | PACKAGED GROUNDWATER | WESTERN | CERS | Lower | 1 ft. |
| 31 | POINT MOLATE IR SITE | 2100 STENMARK DRIVE | HAZNET, NPDES, CIWQS | Lower | 1 ft. |
| K32 | PAKTANK RICHMOND INC | 2101 WESTERN DR | RCRA-SQG, LUST, SWEEPS UST, HIST UST, CA FID UST,... | Lower | 152, 0.029, SSE |
| K33 | STARLIGHT MARINE | 2101 WESTERN DR | EDR Hist Auto | Lower | 152, 0.029, SSE |
| L34 | POINT MOLATE | FUEL DEPO NSCO,POINT | WMUDS/SWAT | Lower | 171, 0.032, NNW |
| L35 | | NSC FUEL DEPTMENT,PO | RCRA-LQG | Lower | 171, 0.032, NNW |
| L36 | CAO-POINT MOLATE | FUEL DEPO NSCO POINT | HIST CORTESE | Lower | 171, 0.032, NNW |
| L37 | POINT MOLATE/RICHMON | 300+ ACRES; IN THE P | RESPONSE, ENVIROSTOR | Lower | 171, 0.032, NNW |
| M38 | FUEL DEPT NSCO | POINT MOLAE SITE | HIST UST | Lower | 293, 0.055, West |
| M39 | U S NAVY, FUEL DEPT. | POINT MOLATE SITE | SWEEPS UST, CA FID UST | Lower | 298, 0.056, West |

# MAPPED SITES SUMMARY

Target Property Address:
330 25TH STREET
RICHMOND, CA 94801

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| M40 | PACIFIC BELL | POINT MOLATE | RCRA-SQG | Lower | 329, 0.062, West |
| 41 | BULK FUEL STORAGE FA | | FUDS | Lower | 348, 0.066, SE |
| 42 | CALTRANS-RICHMOND/SA | TOLL PLAZA I-580 | CA FID UST | Higher | 863, 0.163, SSE |
| 43 | NAVAL SUPPLY CENTER | WESTERN DR OFF SR 17 | SEMS, RCRA-SQG | Lower | 1167, 0.221, NNW |
| N44 | PT SAN PABLO YACHT H | 1900 WESTERN DR | LUST, HIST CORTESE, CONTRA COSTA CO. SITE LIST,... | Lower | 1633, 0.309, NW |
| N45 | PT SAN PABLO YACHT H | 1900 WESTERN DR | LUST | Lower | 1633, 0.309, NW |
| N46 | PT SAN PABLO YACHT H | 1900 WESTERN DR | LUST | Lower | 1633, 0.309, NW |
| 47 | BULK FUEL STORAGE FA | | ENVIROSTOR | Lower | 1769, 0.335, South |
| 48 | CALTRANS-RICHMOND-SA | TOLL BRIDGE | ENVIROSTOR, VCP | Lower | 3726, 0.706, SSE |
| 49 | CHEVRON USA INC RICH | 841 CHEVRON WAY | ENVIROSTOR, CPS-SLIC, WMUDS/SWAT, CERS HAZ WASTE,... | Lower | 3926, 0.744, ESE |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| POINT MOLATE IR SITE<br>NFD POINT MOLATE - 3<br>RICHMOND, CA | SWF/LF<br>Database: SWF/LF (SWIS), Date of Government Version: 05/13/2019<br>Facility ID: 07-CR-0043<br>Operational Status: Closed<br>Regulation Status: Unpermitted<br>CERS | N/A |
| NAVAL FUEL DEPOT POI<br>NFD POINT MOLATE / 3<br>RICHMOND, CA | SWF/LF<br>Database: SWF/LF (SWIS), Date of Government Version: 05/13/2019<br>Facility ID: 07-CR-0042<br>Operational Status: Closed<br>Regulation Status: Pre-regulations<br>CERS | N/A |
| NAVAL FUEL DEPOT POI<br>NFD POINT MOLATE / 3<br>RICHMOND, CA | RGA LF<br>Facility ID: 07-CR-0042 | N/A |
| POINT MOLATE IR SITE<br>NFD POINT MOLATE - 3<br>RICHMOND, CA | RGA LF<br>Facility ID: 07-CR-0043 | N/A |

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

### *Federal Delisted NPL site list*

Delisted NPL ---------- National Priority List Deletions

# EXECUTIVE SUMMARY

***Federal CERCLIS list***

FEDERAL FACILITY---------- Federal Facility Site Information listing

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE---------- Superfund Enterprise Management System Archive

***Federal RCRA CORRACTS facilities list***

CORRACTS---------- Corrective Action Report

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF---------- RCRA - Treatment, Storage and Disposal

***Federal RCRA generators list***

RCRA-CESQG---------- RCRA - Conditionally Exempt Small Quantity Generator

***Federal institutional controls / engineering controls registries***

LUCIS---------- Land Use Control Information System
US ENG CONTROLS---------- Engineering Controls Sites List
US INST CONTROL---------- Sites with Institutional Controls

***Federal ERNS list***

ERNS---------- Emergency Response Notification System

***State and tribal leaking storage tank lists***

INDIAN LUST---------- Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

FEMA UST---------- Underground Storage Tank Listing
UST---------- Active UST Facilities
AST---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST---------- Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

INDIAN VCP---------- Voluntary Cleanup Priority Listing
VCP---------- Voluntary Cleanup Program Properties

***State and tribal Brownfields sites***

BROWNFIELDS---------- Considered Brownfieds Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS---------- A Listing of Brownfields Sites

# EXECUTIVE SUMMARY

***Local Lists of Landfill / Solid Waste Disposal Sites***

| | |
|---|---|
| SWRCY | Recycler Database |
| HAULERS | Registered Waste Tire Haulers Listing |
| INDIAN ODI | Report on the Status of Open Dumps on Indian Lands |
| DEBRIS REGION 9 | Torres Martinez Reservation Illegal Dump Site Locations |
| ODI | Open Dump Inventory |
| IHS OPEN DUMPS | Open Dumps on Indian Land |

***Local Lists of Hazardous waste / Contaminated Sites***

| | |
|---|---|
| US HIST CDL | Delisted National Clandestine Laboratory Register |
| HIST Cal-Sites | Historical Calsites Database |
| SCH | School Property Evaluation Program |
| CDL | Clandestine Drug Labs |
| Toxic Pits | Toxic Pits Cleanup Act Sites |
| CERS HAZ WASTE | CERS HAZ WASTE |
| US CDL | National Clandestine Laboratory Register |
| PFAS | PFAS Contamination Site Location Listing |

***Local Lists of Registered Storage Tanks***

| | |
|---|---|
| CERS TANKS | California Environmental Reporting System (CERS) Tanks |

***Local Land Records***

| | |
|---|---|
| LIENS | Environmental Liens Listing |
| LIENS 2 | CERCLA Lien Information |
| DEED | Deed Restriction Listing |

***Records of Emergency Release Reports***

| | |
|---|---|
| HMIRS | Hazardous Materials Information Reporting System |
| CHMIRS | California Hazardous Material Incident Report System |
| LDS | Land Disposal Sites Listing |
| MCS | Military Cleanup Sites Listing |
| SPILLS 90 | SPILLS 90 data from FirstSearch |

***Other Ascertainable Records***

| | |
|---|---|
| RCRA NonGen / NLR | RCRA - Non Generators / No Longer Regulated |
| DOD | Department of Defense Sites |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| US FIN ASSUR | Financial Assurance Information |
| EPA WATCH LIST | EPA WATCH LIST |
| 2020 COR ACTION | 2020 Corrective Action Program List |
| TSCA | Toxic Substances Control Act |
| TRIS | Toxic Chemical Release Inventory System |
| SSTS | Section 7 Tracking Systems |
| ROD | Records Of Decision |
| RMP | Risk Management Plans |
| RAATS | RCRA Administrative Action Tracking System |
| PRP | Potentially Responsible Parties |
| PADS | PCB Activity Database System |

| | |
|---|---|
| ICIS | Integrated Compliance Information System |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| MLTS | Material Licensing Tracking System |
| COAL ASH DOE | Steam-Electric Plant Operation Data |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| RADINFO | Radiation Information Database |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| DOT OPS | Incident and Accident Data |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| INDIAN RESERV | Indian Reservations |
| FUSRAP | Formerly Utilized Sites Remedial Action Program |
| UMTRA | Uranium Mill Tailings Sites |
| LEAD SMELTERS | Lead Smelter Sites |
| US AIRS | Aerometric Information Retrieval System Facility Subsystem |
| ABANDONED MINES | Abandoned Mines |
| UXO | Unexploded Ordnance Sites |
| ECHO | Enforcement & Compliance History Information |
| DOCKET HWC | Hazardous Waste Compliance Docket Listing |
| FUELS PROGRAM | EPA Fuels Program Registered Listing |
| CA BOND EXP. PLAN | Bond Expenditure Plan |
| Cortese | "Cortese" Hazardous Waste & Substances Sites List |
| CUPA Listings | CUPA Resources List |
| DRYCLEANERS | Cleaner Facilities |
| EMI | Emissions Inventory Data |
| Financial Assurance | Financial Assurance Information Listing |
| ICE | ICE |
| HWT | Registered Hazardous Waste Transporter Database |
| MINES | Mines Site Location Listing |
| MWMP | Medical Waste Management Program Listing |
| PEST LIC | Pesticide Regulation Licenses Listing |
| PROC | Certified Processors Database |
| Notify 65 | Proposition 65 Records |
| UIC | UIC Listing |
| UIC GEO | UIC GEO (GEOTRACKER) |
| WASTEWATER PITS | Oil Wastewater Pits Listing |
| WDS | Waste Discharge System |
| WIP | Well Investigation Program Case List |
| PROJECT | PROJECT (GEOTRACKER) |
| WDR | Waste Discharge Requirements Listing |
| NON-CASE INFO | NON-CASE INFO (GEOTRACKER) |
| OTHER OIL GAS | OTHER OIL & GAS (GEOTRACKER) |
| PROD WATER PONDS | PROD WATER PONDS (GEOTRACKER) |
| SAMPLING POINT | SAMPLING POINT (GEOTRACKER) |
| WELL STIM PROJ | Well Stimulation Project (GEOTRACKER) |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

| | |
|---|---|
| EDR MGP | EDR Proprietary Manufactured Gas Plants |
| EDR Hist Cleaner | EDR Exclusive Historical Cleaners |

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

# EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

### *Federal CERCLIS list*

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***NAVAL SUPPLY CENTER***<br>Site ID: 0903452<br>EPA Id: CA0170090021 | ***WESTERN DR OFF SR 17*** | ***NNW 1/8 - 1/4 (0.221 mi.)*** | ***43*** | ***80*** |

### *Federal RCRA generators list*

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported<br>EPA ID:: CA4170090021 | NSC FUEL DEPTMENT,PO | NNW 0 - 1/8 (0.032 mi.) | L35 | 60 |

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PAKTANK RICHMOND INC*** EPA ID:: CAD066571498 | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| PACIFIC BELL EPA ID:: CAT080020910 | POINT MOLATE | W 0 - 1/8 (0.062 mi.) | M40 | 78 |
| ***NAVAL SUPPLY CENTER*** EPA ID:: CA0170090021 | ***WESTERN DR OFF SR 17*** | ***NNW 1/8 - 1/4 (0.221 mi.)*** | ***43*** | ***80*** |

***State- and tribal - equivalent NPL***

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***POINT MOLATE/RICHMON*** Database: RESPONSE, Date of Government Version: 04/29/2019 Status: Refer: RWQCB Facility Id: 7970002 | ***300+ ACRES; IN THE P*** | ***NNW 0 - 1/8 (0.032 mi.)*** | ***L37*** | ***61*** |

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/29/2019 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***POINT MOLATE/RICHMON*** | ***300+ ACRES; IN THE P*** | ***NNW 0 - 1/8 (0.032 mi.)*** | ***L37*** | ***61*** |

Facility Id: 7970002
Status: Refer: RWQCB

| | | | | |
|---|---|---|---|---|
| BULK FUEL STORAGE FA | | S 1/4 - 1/2 (0.335 mi.) | 47 | 87 |
| Facility Id: 80000376 | | | | |
| Status: Refer: RWQCB | | | | |
| ***CALTRANS-RICHMOND-SA*** | ***TOLL BRIDGE*** | ***SSE 1/2 - 1 (0.706 mi.)*** | ***48*** | ***88*** |
| Facility Id: 48160004 | | | | |
| Status: No Further Action | | | | |
| ***CHEVRON USA INC RICH*** | ***841 CHEVRON WAY*** | ***ESE 1/2 - 1 (0.744 mi.)*** | ***49*** | ***91*** |
| Facility Id: 80001593 | | | | |
| Status: Refer: RWQCB | | | | |

***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TLHUS, INC.*** | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| Database: LUST, Date of Government Version: 12/10/2018 | | | | |
| Database: LUST REG 2, Date of Government Version: 09/30/2004 | | | | |
| Status: Completed - Case Closed | | | | |
| Facility Id: 07-0485 | | | | |
| Facility Status: Case Closed | | | | |
| Global Id: T0601300448 | | | | |
| date9: 4/7/1997 | | | | |
| ***PAKTANK RICHMOND INC*** | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| Database: LUST, Date of Government Version: 12/10/2018 | | | | |
| Database: LUST REG 2, Date of Government Version: 09/30/2004 | | | | |
| Status: Completed - Case Closed | | | | |
| Facility Id: 07-0484 | | | | |
| Facility Status: Leak being confirmed | | | | |
| Global Id: T0601300447 | | | | |
| ***PT SAN PABLO YACHT H*** | ***1900 WESTERN DR*** | ***NW 1/4 - 1/2 (0.309 mi.)*** | ***N44*** | ***84*** |
| Database: LUST, Date of Government Version: 12/10/2018 | | | | |
| Status: Completed - Case Closed | | | | |
| Global Id: T0601300226 | | | | |
| PT SAN PABLO YACHT H | 1900 WESTERN DR | NW 1/4 - 1/2 (0.309 mi.) | N45 | 86 |
| Database: LUST REG 2, Date of Government Version: 09/30/2004 | | | | |
| Facility Id: 07-0244 | | | | |
| Facility Status: Case Closed | | | | |
| date9: 11/2/1999 | | | | |
| PT SAN PABLO YACHT H | 1900 WESTERN DR | NW 1/4 - 1/2 (0.309 mi.) | N46 | 87 |
| Database: LUST REG 2, Date of Government Version: 09/30/2004 | | | | |
| Facility Id: 07-0770 | | | | |

Facility Status: Leak being confirmed

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TLHUS, INC.*** | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| Database: CPS-SLIC, Date of Government Version: 12/10/2018<br>Facility Status: Open - Site Assessment<br>Global Id: T10000000088 | | | | |
| ***GW MON & NPDES PACKA*** | ***WESTERN ROAD*** | ***0 - 1/8 (0.000 mi.)*** | ***21*** | ***33*** |
| Database: CPS-SLIC, Date of Government Version: 12/10/2018<br>Facility Status: Completed - Case Closed<br>Global Id: T0609592137 | | | | |

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| POINT MOLATE | FUEL DEPO NSCO,POINT | NNW 0 - 1/8 (0.032 mi.) | L34 | 59 |

***Local Lists of Registered Storage Tanks***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PAKTANK RICHMOND INC*** | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| Comp Number: 16013 | | | | |
| ***U S NAVY, FUEL DEPT.*** | ***POINT MOLATE SITE*** | ***W 0 - 1/8 (0.056 mi.)*** | ***M39*** | ***68*** |

Comp Number: 59389

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PAKTANK RICHMOND INC*** Facility Id: 00000016013 | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| FUEL DEPT NSCO Facility Id: 00000059389 | POINT MOLAE SITE | W 0 - 1/8 (0.055 mi.) | M38 | 63 |

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CALTRANS-RICHMOND/SA Facility Id: 07001123 Status: I | TOLL PLAZA I-580 | SSE 1/8 - 1/4 (0.163 mi.) | 42 | 80 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PAKTANK RICHMOND INC*** Facility Id: 07000577 Status: I | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| ***U S NAVY, FUEL DEPT.*** Facility Id: 07000965 Status: I | ***POINT MOLATE SITE*** | ***W 0 - 1/8 (0.056 mi.)*** | ***M39*** | ***68*** |

***Other Ascertainable Records***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 03/07/2019 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BULK FUEL STORAGE FA | | SE 0 - 1/8 (0.066 mi.) | 41 | 79 |

# EXECUTIVE SUMMARY

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, has revealed that there is 1 US MINES site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DUTRA MATERIALS<br>Database: US MINES, Date of Government Version: 11/27/2018<br>Mine ID:: 0400228 | | 0 - 1/8 (0.000 mi.) | A29 | 40 |

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/15/2019 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PACIFIC MOLASSES COM<br>Registry ID:: 110065846197 | 2055 WESTERN DR | 0 - 1/8 (0.000 mi.) | E13 | 20 |
| PORT OF RICHMOND TER<br>Registry ID:: 110065836885 | 2055 WESTERN DRIVE | 0 - 1/8 (0.000 mi.) | E17 | 30 |

ENF: A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

A review of the ENF list, as provided by EDR, and dated 11/01/2018 has revealed that there is 1 ENF site within approximately 0.001 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PACKAGED GROUNDWATER***<br>Status: Historical<br>Status: Historical<br>Facility Id: 657165 | ***WESTERN DRIVE*** | ***0 - 1/8 (0.000 mi.)*** | ***I25*** | ***35*** |

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2017 has revealed that there are 4

HAZNET sites within approximately 0.001 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TLHUS INC.<br>GEPAID: CAC002745604 | 2055 WESTERN DR | 0 - 1/8 (0.000 mi.) | E12 | 19 |
| ***TLHUS, INC.***<br>GEPAID: CAC002735147 | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| UNITED MOLASSES<br>GEPAID: CAC002645849 | 2055 WESTERN DR | 0 - 1/8 (0.000 mi.) | E16 | 29 |
| ***POINT MOLATE IR SITE***<br>GEPAID: CAC002838590 | ***2100 STENMARK DRIVE*** | ***0 - 1/8 (0.000 mi.)*** | ***31*** | ***43*** |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TLHUS, INC.***<br>Reg Id: 07-0485 | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| ***PAKTANK RICHMOND INC***<br>Reg Id: 07-0484 | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| CAO-POINT MOLATE<br>Reg Id: 2 071057N02 | FUEL DEPO NSCO POINT | NNW 0 - 1/8 (0.032 mi.) | L36 | 61 |
| ***PT SAN PABLO YACHT H***<br>Reg Id: 07-0770<br>Reg Id: 07-0244 | ***1900 WESTERN DR*** | ***NW 1/4 - 1/2 (0.309 mi.)*** | ***N44*** | ***84*** |

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 05/20/2019 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CHEVRON USA INC RICH***<br>EPA Id: CAD009114919<br>Cleanup Status: OPERATING PERMIT | ***841 CHEVRON WAY*** | ***ESE 1/2 - 1 (0.744 mi.)*** | ***49*** | ***91*** |

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 05/13/2019 has revealed that there are 2 NPDES sites within approximately 0.001 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TLHUS, INC.*** | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| ***POINT MOLATE IR SITE*** | ***2100 STENMARK DRIVE*** | ***0 - 1/8 (0.000 mi.)*** | ***31*** | ***43*** |

# EXECUTIVE SUMMARY

Facility Status: Terminated

CONTRA COSTA CO. SITE LIST: Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, and dated 05/22/2019 has revealed that there are 2 CONTRA COSTA CO. SITE LIST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TLHUS, INC.*** | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| Facility Id: FA0031611 | | | | |
| Facility Id: FA0034602 | | | | |
| ***PAKTANK RICHMOND INC*** | ***2101 WESTERN DR*** | ***SSE 0 - 1/8 (0.029 mi.)*** | ***K32*** | ***51*** |
| Facility Id: FA0031804 | | | | |

MILITARY PRIV SITES: Military privatized sites

A review of the MILITARY PRIV SITES list, as provided by EDR, and dated 06/10/2019 has revealed that there are 7 MILITARY PRIV SITES sites within approximately 0.001 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| RICHMOND (POINT MOLA | RANGE RD | 0 - 1/8 (0.000 mi.) | B6 | 13 |
| RICHMOND (POINT MOLA | NFD POINT MOLATE | 0 - 1/8 (0.000 mi.) | F18 | 31 |
| RICHMOND (POINT MOLA | G ROAD | 0 - 1/8 (0.000 mi.) | J27 | 39 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***RICHMOND (POINT MOLA*** | ***F RD*** | ***0 - 1/8 (0.000 mi.)*** | ***8*** | ***15*** |
| RICHMOND (POINT MOLA | MAIN RD | 0 - 1/8 (0.000 mi.) | D10 | 17 |
| RICHMOND (POINT MOLA | POINT MOLATE | 0 - 1/8 (0.000 mi.) | C11 | 18 |
| RICHMOND (POINT MOLA | DIESEL RD | 0 - 1/8 (0.000 mi.) | G24 | 35 |

CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

A review of the CIWQS list, as provided by EDR, and dated 03/05/2019 has revealed that there are 4 CIWQS sites within approximately 0.001 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TLHUS, INC.*** | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| POINT MOLATE NAVAL F | | 0 - 1/8 (0.000 mi.) | H22 | 33 |
| ***PACKAGED GROUNDWATER*** | ***WESTERN DRIVE*** | ***0 - 1/8 (0.000 mi.)*** | ***I25*** | ***35*** |
| ***POINT MOLATE IR SITE*** | ***2100 STENMARK DRIVE*** | ***0 - 1/8 (0.000 mi.)*** | ***31*** | ***43*** |

# EXECUTIVE SUMMARY

CERS: The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

A review of the CERS list, as provided by EDR, and dated 04/09/2019 has revealed that there are 12 CERS sites within approximately 0.001 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| RICHMOND (POINT MOLA | RANGE RD | 0 - 1/8 (0.000 mi.) | B5 | 13 |
| RICHMOND (POINT MOLA | NFD POINT MOLATE | 0 - 1/8 (0.000 mi.) | F19 | 31 |
| RICHMOND (POINT MOLA | G ROAD | 0 - 1/8 (0.000 mi.) | J26 | 38 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| NFD POINT MOLATE SIT | POINT MOLATE | 0 - 1/8 (0.000 mi.) | C7 | 14 |
| ***RICHMOND (POINT MOLA*** | ***F RD*** | ***0 - 1/8 (0.000 mi.)*** | ***8*** | ***15*** |
| RICHMOND (POINT MOLA | MAIN RD | 0 - 1/8 (0.000 mi.) | D9 | 16 |
| ***TLHUS, INC.*** | ***2055 WESTERN DR*** | ***0 - 1/8 (0.000 mi.)*** | ***E14*** | ***20*** |
| RICHMOND (POINT MOLA | DIESEL RD | 0 - 1/8 (0.000 mi.) | G20 | 32 |
| ***GW MON & NPDES PACKA*** | ***WESTERN ROAD*** | ***0 - 1/8 (0.000 mi.)*** | ***21*** | ***33*** |
| POINT MOLATE NAVAL F | | 0 - 1/8 (0.000 mi.) | H23 | 34 |
| RICHMOND (POINT MOLA | | 0 - 1/8 (0.000 mi.) | 28 | 40 |
| PACKAGED GROUNDWATER | WESTERN | 0 - 1/8 (0.000 mi.) | I30 | 41 |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| STARLIGHT MARINE | 2101 WESTERN DR | SSE 0 - 1/8 (0.029 mi.) | K33 | 58 |

# EXECUTIVE SUMMARY

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LUST: The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

A review of the RGA LUST list, as provided by EDR, has revealed that there is 1 RGA LUST site within approximately 0.001 miles of the target property.

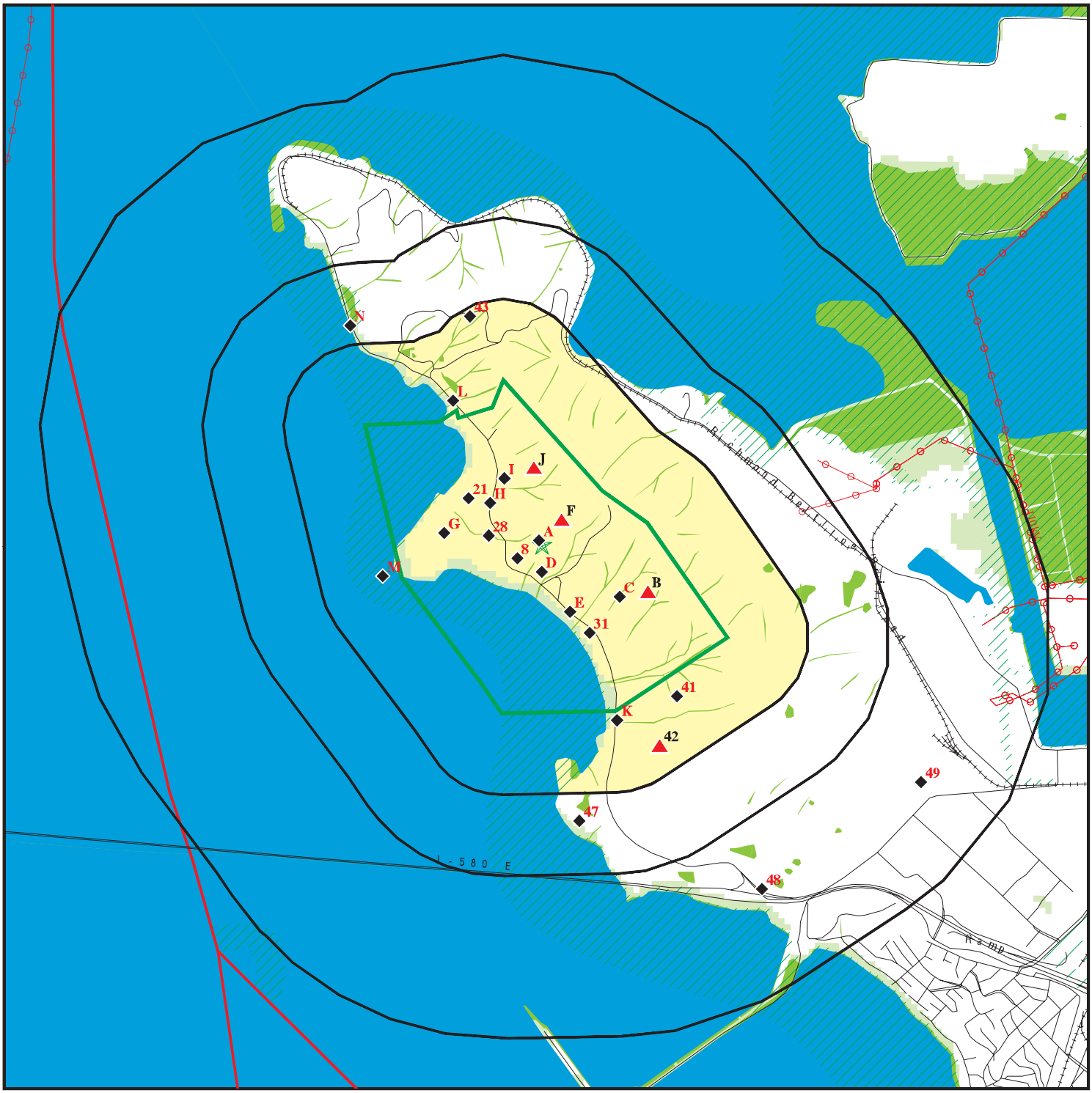
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PACIFIC MOLASSES COM | 2055 WESTERN DR | 0 - 1/8 (0.000 mi.) | E15 | 27 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 8 records.

| Site Name | Database(s) |
|---|---|
| POINT MOLATE, GRDWTR CLEAN | CIWQS |
| NFD POINT MOLATE SITE MG-1 | RGA LUST |
| NFD POINT MOLATE SITE MG-1 | RGA LUST |
| POINT MOLATE, GRDWTR CLEAN | FINDS, ECHO |
| PACKAGED GROUNDWATER TREATMENT PLA | FINDS |
| TERMINAL ONE RICHMOND | CPS-SLIC |
| SEACLIFF VILLAS | CPS-SLIC |
| OAKLAND NAVAL SUPPLY CENTER-POINT | DOCKET HWC |

# OVERVIEW MAP - 5740188.2S




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | Pt Molate | CLIENT: | Terraphase Engineering Inc. |
| ADDRESS: | 330 25th Street<br>Richmond CA 94801 | CONTACT: | Wendy Bellah |
| LAT/LONG: | 37.94778 / 122.413997 | INQUIRY #: | 5740188.2s |
| | | DATE: | August 05, 2019 3:06 pm |

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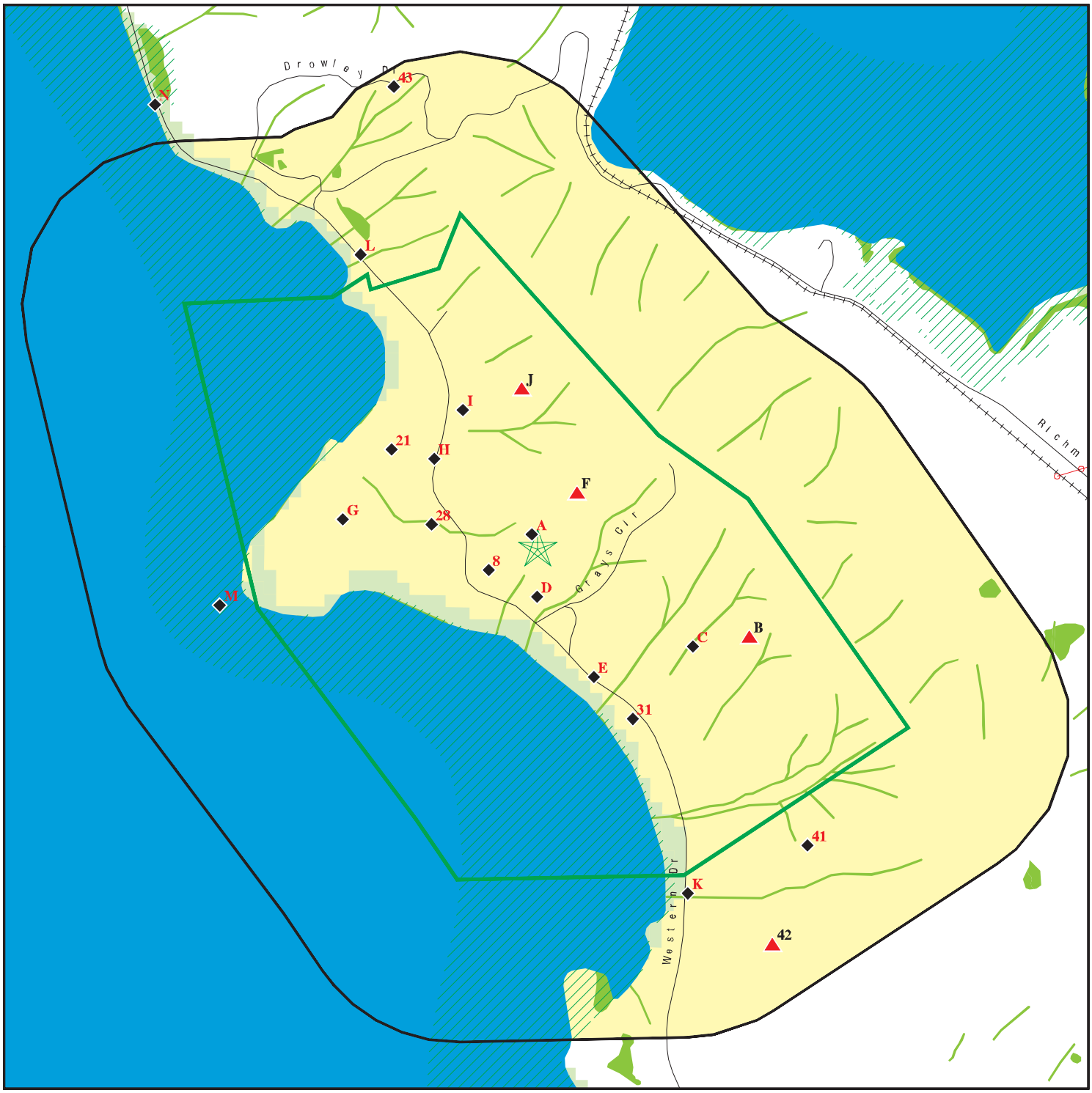
# DETAIL MAP - 5740188.2S




0 1/8 1/4 1/2 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Pt Molate | CLIENT: Terraphase Engineering Inc. |
| ADDRESS: 330 25th Street<br>Richmond CA 94801 | CONTACT: Wendy Bellah |
| LAT/LONG: 37.94778 / 122.413997 | INQUIRY #: 5740188.2s<br>DATE: August 05, 2019 3:10 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 1 | 0 | NR | NR | 1 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| RCRA-SQG | 0.250 | | 2 | 1 | NR | NR | NR | 3 |
| RCRA-CESQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 1 | 0 | 0 | 0 | NR | 1 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 1 | 0 | 1 | 2 | NR | 4 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | 2 | 0 | 0 | 0 | NR | NR | 2 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 2 | 0 | 3 | NR | NR | 5 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CPS-SLIC | 0.500 | | 2 | 0 | 0 | NR | NR | 2 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 1 | 0 | 0 | NR | NR | 1 |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HAULERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CERS HAZ WASTE | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PFAS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| HIST UST | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| CA FID UST | 0.250 | | 2 | 1 | NR | NR | NR | 3 |
| CERS TANKS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CHMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FUDS | 1.000 | | 1 | 0 | 0 | 0 | NR | 1 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | 0.001 | | 2 | NR | NR | NR | NR | 2 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ECHO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOCKET HWC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| EMI | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ENF | 0.001 | | 1 | NR | NR | NR | NR | 1 |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HAZNET | 0.001 | | 4 | NR | NR | NR | NR | 4 |
| ICE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 3 | 0 | 1 | NR | NR | 4 |
| HWP | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | 0.001 | | 2 | NR | NR | NR | NR | 2 |
| PEST LIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CONTRA COSTA CO. SITE LIST | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| UIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UIC GEO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MILITARY PRIV SITES | 0.001 | | 7 | NR | NR | NR | NR | 7 |
| PROJECT | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WDR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CIWQS | 0.001 | | 4 | NR | NR | NR | NR | 4 |
| CERS | 0.001 | 2 | 12 | NR | NR | NR | NR | 14 |
| NON-CASE INFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| OTHER OIL GAS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROD WATER PONDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SAMPLING POINT | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WELL STIM PROJ | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 1 | NR | NR | NR | NR | 1 |
| EDR Hist Cleaner | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | 0.001 | 2 | 0 | NR | NR | NR | NR | 2 |
| RGA LUST | 0.001 | | 1 | NR | NR | NR | NR | 1 |
| - Totals -- | | 6 | 57 | 3 | 5 | 3 | 0 | 74 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1 Target Property** **POINT MOLATE IR SITE 3**
**NFD POINT MOLATE - 330 25TH STREET**
**RICHMOND, CA**

**SWF/LF** **S105155527**
**CERS** **N/A**

**Site 1 of 5 in cluster A**

**Actual: 194 ft.**

SWF/LF (SWIS):

| | |
|---|---|
| Name: | POINT MOLATE IR SITE 3 |
| Address: | NFD POINT MOLATE - 330 25TH STREET |
| City,State,Zip: | RICHMOND, CA |
| Facility ID: | 07-CR-0043 |
| Lat/Long: | 37.9519 / -122.41797 |
| Owner Name: | U.S. Department of the Navy-SW Div NFEC |
| Owner Telephone: | 6195320941 |
| Owner Address: | BRAC Environmental Coordinator |
| Owner Address2: | 1220 Pacific Highway |
| Owner City,St,Zip: | San Diego, CA 92132-5190 |
| Operational Status: | Closed |
| Operator: | U.S. Department of the Navy-SW Div NFEC |
| Operator Phone: | 6195320941 |
| Operator Address: | BRAC Environmental Coordinator |
| Operator Address2: | 1220 Pacific Highway |
| Operator City,St,Zip: | San Diego, CA 92132-5190 |
| Permit Date: | Not reported |
| Permit Status: | Not reported |
| Permitted Acreage: | Not reported |
| Activity: | Solid Waste Disposal Site |
| Regulation Status: | Unpermitted |
| Landuse Name: | Military,Industrial |
| GIS Source: | Map |
| Category: | Disposal |
| Unit Number: | 01 |
| Inspection Frequency: | None |
| Accepted Waste: | Industrial |
| Closure Date: | Not reported |
| Closure Type: | Not reported |
| Disposal Acreage: | Not reported |
| SWIS Num: | 07-CR-0043 |
| Waste Discharge Requirement Num: | Not reported |
| Program Type: | Not reported |
| Permitted Throughput with Units: | Not reported |
| Actual Throughput with Units: | Not reported |
| Permitted Capacity with Units: | Not reported |
| Remaining Capacity: | Not reported |
| Remaining Capacity with Units: | Not reported |
| Lat/Long: | 37.9519 / -122.41797 |

CERS:

| | |
|---|---|
| Name: | POINT MOLATE IR SITE 3 |
| Address: | NFD POINT MOLATE - 330 25TH STREET |
| City,State,Zip: | RICHMOND, CA |
| Site ID: | 511048 |
| CERS ID: | 07-CR-0043 |
| CERS Description: | Solid Waste and Recycle Sites |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Legal Operator |
| Entity Name: | U.S. Department of the Navy-SW Div NFEC |
| Entity Title: | Not reported |

**POINT MOLATE IR SITE 3 (Continued)** **S105155527**

| | |
|---|---|
| Affiliation Address: | BRAC Environmental Coordinator1220 Pacific Highway |
| Affiliation City: | San Diego |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92132-5190 |
| Affiliation Phone: | 6195320941 |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | U.S. Department of the Navy-SW Div NFEC |
| Entity Title: | Not reported |
| Affiliation Address: | BRAC Environmental Coordinator1220 Pacific Highway |
| Affiliation City: | San Diego |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92132-5190 |
| Affiliation Phone: | 6195320941 |

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**A2 Target Property** **NAVAL FUEL DEPOT POINT MOLATE SITE 1** **SWF/LF S105155526**
**NFD POINT MOLATE / 330 - 25TH STREET** **CERS N/A**
**RICHMOND, CA**

**Site 2 of 5 in cluster A**

**Actual: 194 ft.**

SWF/LF (SWIS):

| | |
|---|---|
| Name: | NAVAL FUEL DEPOT POINT MOLATE SITE 1 |
| Address: | NFD POINT MOLATE / 330 - 25TH STREET |
| City,State,Zip: | RICHMOND, CA |
| Facility ID: | 07-CR-0042 |
| Lat/Long: | 37.9519 / -122.41797 |
| Owner Name: | U.S. Department of the Navy-SW Div NFEC |
| Owner Telephone: | 6195320941 |
| Owner Address: | BRAC Environmental Coordinator |
| Owner Address2: | 1220 Pacific Highway |
| Owner City,St,Zip: | San Diego, CA 92132-5190 |
| Operational Status: | Closed |
| Operator: | U.S. Department of the Navy-SW Div NFEC |
| Operator Phone: | 6195320941 |
| Operator Address: | BRAC Environmental Coordinator |
| Operator Address2: | 1220 Pacific Highway |
| Operator City,St,Zip: | San Diego, CA 92132-5190 |
| Permit Date: | Not reported |
| Permit Status: | Not reported |
| Permitted Acreage: | $413.00 |
| Activity: | Solid Waste Disposal Site |
| Regulation Status: | Pre-regulations |
| Landuse Name: | Military,Industrial |
| GIS Source: | Map |
| Category: | Disposal |
| Unit Number: | 01 |
| Inspection Frequency: | Quarterly |
| Accepted Waste: | Construction/demolition,Industrial,Metals |
| Closure Date: | Not reported |
| Closure Type: | Not reported |
| Disposal Acreage: | $1.00 |
| SWIS Num: | 07-CR-0042 |
| Waste Discharge Requirement Num: | Not reported |
| Program Type: | Not reported |

**NAVAL FUEL DEPOT POINT MOLATE SITE 1 (Continued)** **S105155526**

Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 37.9519 / -122.41797

CERS:
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City,State,Zip: RICHMOND, CA
Site ID: 510401
CERS ID: 07-CR-0042
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: U.S. Department of the Navy-SW Div NFEC
Entity Title: Not reported
Affiliation Address: BRAC Environmental Coordinator1220 Pacific Highway
Affiliation City: San Diego
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92132-5190
Affiliation Phone: 6195320941

Affiliation Type Desc: Legal Owner
Entity Name: U.S. Department of the Navy-SW Div NFEC
Entity Title: Not reported
Affiliation Address: BRAC Environmental Coordinator1220 Pacific Highway
Affiliation City: San Diego
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92132-5190
Affiliation Phone: 6195320941

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**A3** **NAVAL FUEL DEPOT POINT MOLATE SITE 1** **RGA LF** **S114730649**
**Target** **NFD POINT MOLATE / 330 - 25TH STREET** **N/A**
**Property** **RICHMOND, CA**

**Site 3 of 5 in cluster A**

**Actual: 194 ft.**

RGA LF:
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2012 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2011 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET

**NAVAL FUEL DEPOT POINT MOLATE SITE 1 (Continued)** **S114730649**

City: RICHMOND
State: RICHMOND
2010 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2009 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2008 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2007 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2006 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2005 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2004 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2003 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET
Name: NAVAL FUEL DEPOT POINT MOLATE SITE 1
Address: NFD POINT MOLATE / 330 - 25TH STREET
City: RICHMOND
State: RICHMOND
2002 NAVAL FUEL DEPOT POINT MOLATE SITE 1 NFD POINT MOLATE / 330 - 25TH STREET

**A4** **POINT MOLATE IR SITE 3** **RGA LF** **S114731582**
**Target** **NFD POINT MOLATE - 330 25TH STREET** **N/A**
**Property** **RICHMOND, CA**

**Site 4 of 5 in cluster A**

**Actual:** **194 ft.**

RGA LF:
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2012 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2011 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2010 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2009 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2008 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2007 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2006 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2005 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2004 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET
City: RICHMOND
State: RICHMOND
2003 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET
Name: POINT MOLATE IR SITE 3
Address: NFD POINT MOLATE - 330 25TH STREET

**POINT MOLATE IR SITE 3 (Continued)** **S114731582**

City: RICHMOND
State: RICHMOND
2002 POINT MOLATE IR SITE 3 NFD POINT MOLATE - 330 25TH STREET

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**B5** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **CERS** **S121753817**
**RANGE RD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 1 of 2 in cluster B**

**Relative:** CERS:
**Higher**
Name: RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLATE US
**Actual:** Address: RANGE RD
**239 ft.** City,State,Zip: RICHMOND, CA 94804
Site ID: 237493
CERS ID: T0601355644
CERS Description: Military Privatized Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: MELISSA HAGEN - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BOULEVARD
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9256462286

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay Street, 14th Floor
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

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**B6** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S109288113**
**RANGE RD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 2 of 2 in cluster B**

**Relative:** MILITARY PRIV SITES:
**Higher**
Name: RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLA
**Actual:** Address: RANGE RD
**239 ft.** City,State,Zip: RICHMOND, CA 94804
Global ID: T0601355644
Case Type: Military Privatized Site
Status: Completed - Case Closed
Status Date: 12/12/2007
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: CONTRA COSTA COUNTY

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S109288113**

| | |
|---|---|
| RB Case Number: | 2119.1057 |
| Loc Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Contaminants of Concern: | Heating Oil / Fuel Oil, Diesel, Aviation |
| Potential Media Affected: | Soil |
| Site History: | UST#17 was installed in 1943 at the same time as the 19 other large tanks located on the hillsides and has the same concrete construction. UST#17 had a capacity of 50,000 barrels (2,100,000 gallons) and was unlined until 1980, when it was lined with WD-6 (a polysulfide latex material). Its dimensions were an interior height of 20 feet, interior diameter of 135.33 feet, and walls 1 to 1.5 feet thick. Approximately 225 feet of buried, 16-inch-diameter product piping extended west-northwest from UST#17 to VB4. Originally, the Navy used UST#17 to store Navy special fuel oil (NSFO, or bunker fuel), with subsequent storage of F-76 (marine diesel fuel) from June 1977 and finally storage of JP-5 (jet propellant fuel) from June 1980 until 1995. According to NFD Point Molate personnel during an interview, one documented release of NSFO occurred from the tank due to overfill and extended to San Francisco Bay, with an approximate date of over 28 years ago . According to the Unauthorized Release/Contamination Site report, the bottom tank valve was the apparent source of leakage due to loose-fitting piping. UST#17 was certified clean and product-free on February 6, 1996, and has not been used since that date. During the construction for structural in-place closure in 2004 and 2005, any standing fluids in the tank were removed; rust, scale, and silt were removed from the base of the tank; its associated piping was cleaned and left in place; the aboveground structure (doghouse) was demolished; permanent plugs were placed in all pipe terminations (including the bottom perimeter drain) in the valve pit; the valve pit was backfilled; a subsurface french drain with a minimum of two surface outfalls was installed around the UST roof perimeter; and two manway extensions were added for future access to the UST interior. |
| Begin Date: | 1998-12-01 00:00:00 |
| How Discovered: | Site Assessment/Site Investigation |
| How Discovered Description: | SUBSURFACE SOIL SAMPLES COLLECTED BETWEEN 20 AND 24 FEET BGS SHOWED TPHG UP TO 6,400 MG/KG, TPHD UP TO 4,300 MG/KG, AND JP-5 UP TO 7,500 MG/KG. |
| Stop Method: | Other Means |
| Stop Description: | EMPTY AND CLEAN TANKS, PIPING REMOVED. |
| Latitude: | 37.945771 |
| Longitude: | -122.408026 |
| Geotracker: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601355644 |

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**C7** **NFD POINT MOLATE SITE 1 - FORMER LANDFILL** **CERS** **S121751793**
**POINT MOLATE** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Site 1 of 2 in cluster C**

**Relative:** CERS:
**Lower**

| | |
|---|---|
| Name: | NFD POINT MOLATE SITE 1 - FORMER LANDFILL |
| Address: | POINT MOLATE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 203893 |
| CERS ID: | DOD100373800 |
| CERS Description: | Military Privatized Site |

**Actual:**
**69 ft.**

**NFD POINT MOLATE SITE 1 - FORMER LANDFILL (Continued)** **S121751793**

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay Street, 14th Floor |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 5106222338 |

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**8** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S109288114**
**F RD** **CERS** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Relative:** **Lower**
**Actual:** **168 ft.**

MILITARY PRIV SITES:

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - UST #4 |
| Address: | F RD |
| City,State,Zip: | RICHMOND, CA 94804 |
| Global ID: | T0601350779 |
| Case Type: | Military Privatized Site |
| Status: | Completed - Case Closed |
| Status Date: | 08/12/2010 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Case Worker: | MB |
| Local Agency: | CONTRA COSTA COUNTY |
| RB Case Number: | 2119.1057 |
| Loc Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Contaminants of Concern: | Heating Oil / Fuel Oil, Diesel, Aviation |
| Potential Media Affected: | Soil |
| Site History: | UST#4 was installed in 1943 at the same time as the 19 other large tanks located on the hillsides. UST#4 had a capacity of 50,000 barrels (2,100,000 gallons) and is a steel lined concrete vault, with an interior height of 20 feet, interior diameter of 135.33 feet, and walls 1 to 1.5 feet thick. Approximately 180 feet of buried, 10-inch-diameter product piping extended west from UST#4 to VB10. Originally, the Navy used UST#4 to store special fuel oil (bunker fuel), with subsequent storage of F-76 (marine diesel fuel) from October 1958, and finally jet turbine fuel (JP-5) from July 1960 until 1995. According to NFD Point Molate personnel during an interview, a documented pipeline leak of JP-5 occurred from the tank vicinity downhill toward VB10. The leak was reported in 1988 (UST#4 Closure Summary Report, Case 07D9201[07D9204] Former NFD Point Molate, Richmond, CA 3 ALNC-2206-0008-0014) . According to the unauthorized release/contamination site report, the bottom tank valve was the apparent source of leakage due to loose-fitting piping. UST#4 was certified clean and product-free for temporary storage on August 12, 1996. During the construction for structural in-place closure in 2004 and 2005, any standing fluids in the tank were removed; rust, scale, and silt were removed from the base of the tank; its associated piping was cleaned and left in place; the aboveground structure (doghouse) was demolished; permanent plugs were placed in all pipe terminations (including the bottom perimeter drain) in the valve pit; the valve pit was backfilled; a subsurface french drain |

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S109288114**

with a minimum of two surface outfalls was installed around the UST roof perimeter; and two man-way extensions were added for future access to the UST interior.

Begin Date: 1996-08-12 00:00:00
How Discovered: Site Assessment/Site Investigation
How Discovered Description: soil sample from 21 ft bgs had TPH in gasoline range at upto 10,000 mg/kg, JP-5 at upto 9,200 mg/kg. Groundwater not found.
Stop Method: Remove Contents
Stop Description: tank was certified clean and product free on 8/12/96, then used for temporary storage.
Latitude: 37.9472602709054
Longitude: -122.415375709534
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601350779

CERS:
Name: RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - UST #4
Address: F RD
City,State,Zip: RICHMOND, CA 94804
Site ID: 216097
CERS ID: T0601350779
CERS Description: Military Privatized Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: MELISSA HAGEN - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BOULEVARD
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9256462286

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 Clay Street, 14th Floor
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

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**D9** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **CERS** **S121750782**
**MAIN RD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 1 of 2 in cluster D**

**Relative:** CERS:
**Lower**
Name: RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLATE US
**Actual:**
**104 ft.**
Address: MAIN RD
City,State,Zip: RICHMOND, CA 94804
Site ID: 188488
CERS ID: T0601385735
CERS Description: Military Privatized Site

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S121750782**

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | MELISSA HAGEN - CONTRA COSTA COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 4333 PACHECO BOULEVARD |
| Affiliation City: | MARTINEZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9256462286 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay Street, 14th Floor |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 5106222338 |

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**D10** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S109288081**
**MAIN RD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 2 of 2 in cluster D**

**Relative:** **Lower**
**Actual:** **104 ft.**

MILITARY PRIV SITES:

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLA |
| Address: | MAIN RD |
| City,State,Zip: | RICHMOND, CA 94804 |
| Global ID: | T0601385735 |
| Case Type: | Military Privatized Site |
| Status: | Completed - Case Closed |
| Status Date: | 07/03/2006 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Case Worker: | MB |
| Local Agency: | CONTRA COSTA COUNTY |
| RB Case Number: | 2119.1057 |
| Loc Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Contaminants of Concern: | Heating Oil / Fuel Oil |
| Potential Media Affected: | Other Groundwater (uses other than drinking water), Soil |
| Site History: | Groundwater was not encountered in the boreholes (to a maximum depth of 26.9 feet). At other nearb tank locations perched groundwater was only found in small areas in the fill or weathered bedrock during the wet season. The closest seasonal seep is SW02-15, located <35 ft from the UST, the results are reported in Section III. All analytes from the seep were below Feb. 2005 ESLs for drinking water from the most recent samples. There are no complete human exposure pathways to potentially impacted soil, groundwater, or surface water. Based on the results of soil investigation and groundwater monitoring at the site, this site does not pose significant risk to human health, the environment, or water quality. In accordance with the Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites (SFRWQCB |

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S109288081**

January 5, 1996), this site is considered a lowrisk fuel site. This is based on the fact that there is no ongoing source, no free product, the site has been adequately characterized, there is little or no groundwater impact remaining, no drinking water well or surface water likely to be impacted, and the site presents no significant risk to human health or the environment.

Begin Date: 1998-12-01 00:00:00
How Discovered: Site Assessment/Site Investigation
How Discovered Description: SUBSURFACE SOIL SAMPLES COLLECTED FROM DEPTHS OF 13.5 TO 25.5 FEET BGS HAD TPH IN THE GASOLINE RANGE AT UPTO 13 MG/KG, TPHD UPTO 550 MG/KG, AND TPHMO AT UPTO 75 MG/KG.GROUNDWATER NOT FOUND AT 26.9 FEET BGS.
Stop Method: Remove Contents
Stop Description: TANK EMPTIED AND CLEANED, PIPELINES CLEANED AND PLUGED.
Latitude: 37.9466595719067
Longitude: -122.414013147354
Geotracker: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601385735

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**C11** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S118672079**
**POINT MOLATE** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Site 2 of 2 in cluster C**

**Relative:** MILITARY PRIV SITES:
**Lower**
Name: RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD POINT M
**Actual:** Address: POINT MOLATE
**69 ft.** City,State,Zip: RICHMOND, CA 94801
Global ID: DOD100373800
Case Type: Military Privatized Site
Status: Open - Verification Monitoring
Status Date: 06/25/2009
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: Not reported
RB Case Number: T0609592138
Loc Case Number: 200596 -- 3
File Location: Regional Board
Potential Contaminants of Concern: Not reported
Potential Media Affected: Soil
Site History: Paper copy of a Record of Decision dated June 1, 2005, is available. The Site 1 landfill is located approximately 1,600 feet east of the San Francisco Bay, near the center of NFD Point Molate. From approximately 1957 until 1979, Site 1 was primarily used for disposal of construction and landscaping debris. The debris was deposited over a one-acre area. In 1998, an investigation was conducted to determine the general nature and extent of the waste in the landfill. The estimated volume of fill at Site 1 was 20,000 cubic yards (TtEMI 2001a). The soil cover for Site 1 was designed in 2001 and constructed in 2002. The soil cover is 3 feet thick, has drainage controls and a monitoring system, and was hydroseeded with an annual native grass for erosion protection. The overall goal of the ongoing postclosure monitoring and maintenance program is to ensure the integrity, effectiveness, and long-term maintenance and performance of the Site 1 soil cover and drainage system and associated institutional controls established for the site.
Begin Date: 1995-12-01 00:00:00
How Discovered: Not reported
How Discovered Description: Not reported

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S118672079**

| | |
|---|---|
| Stop Method: | Not reported |
| Stop Description: | Not reported |
| Latitude: | 37.9455512270613 |
| Longitude: | -122.409625053406 |
| Geotracker: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=DOD100373800 |

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**E12** **TLHUS INC.** **HAZNET** **S117302185**
**2055 WESTERN DR** **N/A**
**< 1/8** **POINT RICHMOND, CA 94801**
**1 ft.**

**Site 1 of 6 in cluster E**

**Relative:** HAZNET:
**Lower**

| | |
|---|---|
| **Actual:** Name: | TLHUS INC. |
| **34 ft.** Address: | 2055 WESTERN DR |
| City,State,Zip: | POINT RICHMOND, CA 948012025 |
| Year: | 2013 |
| GEPAID: | CAC002745604 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E ELDORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 625211578 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAT080013352 |
| TSD County: | Los Angeles |
| Tons: | 18.5565 |
| CA Waste Code: | 223-Unspecified oil-containing waste |
| Method: | H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Facility County: | Contra Costa |

| | |
|---|---|
| Name: | TLHUS INC. |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | POINT RICHMOND, CA 948012025 |
| Year: | 2013 |
| GEPAID: | CAC002745604 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E ELDORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 625211578 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAT080013352 |
| TSD County: | Los Angeles |
| Tons: | 18.5565 |
| CA Waste Code: | 223-Unspecified oil-containing waste |
| Method: | H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Facility County: | Contra Costa |

**E13** **PACIFIC MOLASSES COMPANY** **FINDS** **1023293018**
**2055 WESTERN DR** **N/A**
**< 1/8** **RICHMOND, CA 94807**
**1 ft.**

**Site 2 of 6 in cluster E**

**Relative: Lower**

**Actual: 34 ft.**

FINDS:

Registry ID: 110065846197

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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**E14** **TLHUS, INC.** **LUST** **S101294212**
**2055 WESTERN DR** **CPS-SLIC** **N/A**
**< 1/8** **RICHMOND, CA 94801** **HAZNET**
**1 ft.** **HIST CORTESE**
**Site 3 of 6 in cluster E** **NPDES**
**CONTRA COSTA CO. SITE LIST**
**Relative: Lower** **CIWQS**
**CERS**

**Actual: 34 ft.**

LUST:

| | |
|---|---|
| Name: | PACIFIC MOLASSES COMPANY |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 94807 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300448 |
| Global Id: | T0601300448 |
| Latitude: | 37.9354 |
| Longitude: | -122.4082 |
| Status: | Completed - Case Closed |
| Status Date: | 04/07/1997 |
| Case Worker: | UUU |
| RB Case Number: | 07-0485 |
| Local Agency: | CONTRA COSTA COUNTY |
| File Location: | Not reported |
| Local Case Number: | 11539 |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Diesel |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0601300448 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | Regional Water Board |
| Organization Name: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Address: | 1515 CLAY ST SUITE 1400 |
| City: | OAKLAND |
| Email: | Not reported |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0601300448 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | SUE LOYD |

**TLHUS, INC. (Continued)** **S101294212**

Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300448
Action Type: Other
Date: 08/07/1990
Action: Leak Discovery

Global Id: T0601300448
Action Type: Other
Date: 08/07/1990
Action: Leak Stopped

Global Id: T0601300448
Action Type: Other
Date: 08/07/1990
Action: Leak Reported

LUST:
Global Id: T0601300448
Status: Completed - Case Closed
Status Date: 04/07/1997

Global Id: T0601300448
Status: Open - Case Begin Date
Status Date: 08/07/1990

Global Id: T0601300448
Status: Open - Site Assessment
Status Date: 05/02/1994

LUST REG 2:
Region: 2
Facility Id: 07-0485
Facility Status: Case Closed
Case Number: 11539
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 5/2/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CPS-SLIC:
Name: PORT OF RICHMOND TERMINAL 4 (FORMER VOPAK LEASEHOLD)

**TLHUS, INC. (Continued)** **S101294212**

| | |
|---|---|
| Address: | 2055 WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | STATE |
| **Facility Status:** | **Open - Site Assessment** |
| Status Date: | 12/19/2008 |
| Global Id: | T10000000088 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 37.9622465439657 |
| Longitude: | -122.426678538322 |
| Case Type: | Cleanup Program Site |
| Case Worker: | AJK |
| Local Agency: | Not reported |
| RB Case Number: | 2119.1231 |
| File Location: | Regional Board |
| Potential Media Affected: | Other Groundwater (uses other than drinking water), Soil, Surface water |
| Potential Contaminants of Concern: | Benzene, Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating |
| Site History: | Port of Richmond Terminal 4 is owned by the Port of Richmond, and consists of two historic leaseholds adjacent to one another: the Vopak North America Inc. (Vopak) leasehold and the United Molasses Company leasehold. The Vopak leasehold consisted of approximately 9.5 acres of land used for a bulk oil storage facility and included a large quantity of aboveground tanks, related structures, and underground storage tanks. The United Molasses Company leasehold (see Geotracker case # T10000001311) consisted of approximately six acres of land hydraulically downgradient and southwest of the Vopak leasehold used for bulk storage, handling, and distribution of agricultural products in aboveground, underground storage tanks, and related structures. More details can be found in the Site Cleanup Requirements outlined in Order No. R2-2007-0067. Vopak and its predecessors, which include Dorward & Sons and Paktak California, began operating a bulk oil storage facility on its leasehold at the Site in 1917. Vopak and its predecessors stored products including, but not limited to, lubricating oils, gasoline, diesel fuel, neutral oil 100 and 500, Grade 4 oil, distillate oil, No. 5 fuel oil, No. 6 fuel oil, jet fuel, polybutane, toluene, xylene, linear alkylbenzenes, alcohols, animal and vegetable oils, liquid fertilizers, and phosphoric acids. The products were contained in approximately 100 aboveground storage tanks with a capacity ranging from 1000 to 3.9 million gallons, with a total capacity of 21,000,000 gallons. Vopak ceased operations in 2000, and demolished and removed the tanks by February 2001. An undetermined number of underground storage tanks were also located at the Site. Two former pipelines transported alkenes, propylene tetramer, and polymers from the neighboring Chevron Refinery to the Vopak facility. The pipelines were constructed, owned and operated by Chevron. United Molasses Company and its predecessors, PM Ag and Pacific Molasses Company, began operating on their Site leasehold in 1936. PM Ag and Pacific Molasses Company were engaged in aboveground bulk storage, handling, and distribution of commercial agricultural products. Products included coconut oil, lignin liquor, linseed oil, cane molasses, blackstrap molasses, beet molasses, and tallow. Two boilers were used to heat and improve the transfer of products. The boilers were fired by diesel or light heating oil stored in two underground storage tanks (one was partially buried), one of unknown size and one with a capacity of approximately 8,000 gallons. United Molasses Company |

**TLHUS, INC. (Continued)** **S101294212**

removed the two underground storage tanks and eight aboveground storage tanks formerly containing agricultural products in the 1980s and 1990s, and ceased facility operations in 1993.

Click here to access the California GeoTracker records for this facility:

HAZNET:

| | |
|---|---|
| Name: | TLHUS, INC. |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 948012025 |
| Year: | 2013 |
| GEPAID: | CAC002735147 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E ELDORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 625211578 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAD982042475 |
| TSD County: | Solano |
| Tons: | 8 |
| CA Waste Code: | 151-Asbestos containing waste |
| Method: | H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Facility County: | Contra Costa |

| | |
|---|---|
| Name: | TLHUS, INC. |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 948012025 |
| Year: | 2013 |
| GEPAID: | CAC002735147 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E ELDORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 625211578 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAD980675276 |
| TSD County: | Kern |
| Tons: | 25.284 |
| CA Waste Code: | 352-Other organic solids |
| Method: | H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Facility County: | Contra Costa |

| | |
|---|---|
| Name: | TLHUS, INC. |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 948012025 |
| Year: | 2013 |
| GEPAID: | CAC002735147 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E ELDORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 625211578 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAT080013352 |

**TLHUS, INC. (Continued)** **S101294212**

TSD County: Los Angeles
Tons: 7.506
CA Waste Code: 223-Unspecified oil-containing waste
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Contra Costa

Name: TLHUS, INC.
Address: 2055 WESTERN DR
City,State,Zip: RICHMOND, CA 948012025
Year: 2013
GEPAID: CAC002735147
Contact: DON MOSTER
Telephone: 2174212452
Mailing Name: Not reported
Mailing Address: 2200 E ELDORADO ST
Mailing City,St,Zip: DECATUR, IL 625211578
Gen County: Contra Costa
TSD EPA ID: CAD982042475
TSD County: Solano
Tons: 8
CA Waste Code: 151-Asbestos containing waste
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Contra Costa

Name: TLHUS, INC.
Address: 2055 WESTERN DR
City,State,Zip: RICHMOND, CA 948012025
Year: 2013
GEPAID: CAC002735147
Contact: DON MOSTER
Telephone: 2174212452
Mailing Name: Not reported
Mailing Address: 2200 E ELDORADO ST
Mailing City,St,Zip: DECATUR, IL 625211578
Gen County: Contra Costa
TSD EPA ID: CAD980675276
TSD County: Kern
Tons: 25.284
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Contra Costa

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:
edr_fname: PACIFIC MOLASSES COMPANY
edr_fadd1: 2055 WESTERN
City,State,Zip: RICHMOND, CA 94807
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0485

**TLHUS, INC. (Continued)** **S101294212**

NPDES:

| | |
|---|---|
| Name: | FORMER UNITED MOLASSES LEASEHOLD REMEDIAL SITE EXCAVATION |
| Address: | 2055 WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 2 07W001285 |
| Regulatory Measure Type: | Construction |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Expired |
| Status Date: | 03/23/2014 |
| Operator Name: | Port of Richmond |
| Operator Address: | 1411 Harbour Way South |
| Operator City: | Richmond |
| Operator State: | California |
| Operator Zip: | 94804 |

CONTRA COSTA CO. SITE LIST:

| | |
|---|---|
| Name: | UNITED MOLASSES CO |
| Address: | 2055 WESTERN DR |
| City: | RICHMOND |
| Facility ID: | FA0031611 |
| Billing Status: | INACTIVE, NON-BILLABLE |
| Program Status: | CONTRA COSTA CO. SITE LIST |
| Program/Elements: | UNDERGROUND STORAGE TANK SITE |
| Region: | CONTRA COSTA |
| Cupa Number: | 711539 |

| | |
|---|---|
| Name: | PORT OF RICHMOND |
| Address: | 2055 WESTERN DR |
| City: | RICHMOND |
| Facility ID: | FA0034602 |
| Billing Status: | INACTIVE, NON-BILLABLE |
| Program Status: | CONTRA COSTA CO. SITE LIST |
| Program/Elements: | UNDERGROUND STORAGE TANK SITE |
| Region: | CONTRA COSTA |
| Cupa Number: | 774724 |

CIWQS:

| | |
|---|---|
| Name: | FORMER UNITED MOLASSES LEASEHOLD REMEDIAL SITE EXCAVATION |
| Address: | 2055 WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |

**TLHUS, INC. (Continued)** **S101294212**

| | |
|---|---|
| Agency: | Port of Richmond |
| Agency Address: | 1411 Harbour Way South, Richmond, CA 94804 |
| Place/Project Type: | Construction - Other: Remediation |
| SIC/NAICS: | Not reported |
| Region: | 2 |
| Program: | CONSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water construction |
| Order Number: | 2009-0009-DWQ |
| WDID: | 2 07C368220 |
| NPDES Number: | CAS000002 |
| Adoption Date: | Not reported |
| Effective Date: | 11/12/2013 |
| Termination Date: | 02/10/2014 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 37.96225 |
| Longitude: | -122.42746 |

CERS:

| | |
|---|---|
| Name: | PORT OF RICHMOND TERMINAL 4 (FORMER VOPAK LEASEHOLD) |
| Address: | 2055 WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 214496 |
| CERS ID: | T10000000088 |
| CERS Description: | Cleanup Program Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ALYX KARPOWICZ - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay St., Suite 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 5106222427 |

| | |
|---|---|
| Name: | PACIFIC MOLASSES COMPANY |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 94807 |
| Site ID: | 194069 |
| CERS ID: | T0601300448 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 CLAY ST SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |

**TLHUS, INC. (Continued)** **S101294212**

| | |
|---|---|
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SUE LOYD - CONTRA COSTA COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 4333 PACHECO BLVD. |
| Affiliation City: | MARTINEZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**E15** **PACIFIC MOLASSES COMPANY** **RGA LUST** **S114666244**
**2055 WESTERN DR** **N/A**
**< 1/8** **RICHMOND, CA**
**1 ft.**

**Site 4 of 6 in cluster E**

**Relative:** RGA LUST:
**Lower**

| | | | |
|---|---|---|---|
| **Actual:** Name: | PACIFIC MOLASSES COMPANY | | |
| **34 ft.** Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2012 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |
| Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2011 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |
| Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2010 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |
| Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2009 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |
| Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2008 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |
| Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2007 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |
| Address: | 2055 WESTERN DR | | |
| City: | RICHMOND | | |
| State: | RICHMOND | | |
| | 2006 | PACIFIC MOLASSES COMPANY | 2055 WESTERN DR |
| Name: | PACIFIC MOLASSES COMPANY | | |

**PACIFIC MOLASSES COMPANY (Continued)** **S114666244**

Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
2005 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
2003 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
2002 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
2001 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
2000 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
1998 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
1997 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
1996 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
1995 PACIFIC MOLASSES COMPANY 2055 WESTERN DR
Name: PACIFIC MOLASSES COMPANY
Address: 2055 WESTERN DR
City: RICHMOND
State: RICHMOND
1994 PACIFIC MOLASSES COMPANY 2055 WESTERN DR

**E16** **UNITED MOLASSES** **HAZNET** **S112980119**
**2055 WESTERN DR** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Site 5 of 6 in cluster E**

**Relative:** HAZNET:
**Lower**

**Actual:**
**34 ft.**

| | |
|---|---|
| Name: | UNITED MOLASSES |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 94801 |
| Year: | 2010 |
| GEPAID: | CAC002645849 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E EL DORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 62525 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAD028409019 |
| TSD County: | Los Angeles |
| Tons: | 0.1 |
| CA Waste Code: | 181-Other inorganic solid waste |
| Method: | H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Facility County: | Contra Costa |

| | |
|---|---|
| Name: | UNITED MOLASSES |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 94801 |
| Year: | 2010 |
| GEPAID: | CAC002645849 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E EL DORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 62525 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAD982042475 |
| TSD County: | Solano |
| Tons: | 0.4 |
| CA Waste Code: | 151-Asbestos containing waste |
| Method: | H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Facility County: | Contra Costa |

| | |
|---|---|
| Name: | UNITED MOLASSES |
| Address: | 2055 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 94801 |
| Year: | 2010 |
| GEPAID: | CAC002645849 |
| Contact: | DON MOSTER |
| Telephone: | 2174212452 |
| Mailing Name: | Not reported |
| Mailing Address: | 2200 E EL DORADO ST |
| Mailing City,St,Zip: | DECATUR, IL 62525 |
| Gen County: | Contra Costa |
| TSD EPA ID: | CAD982042475 |
| TSD County: | Solano |
| Tons: | 0.4 |

**UNITED MOLASSES (Continued)** **S112980119**

CA Waste Code: 151-Asbestos containing waste
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)
Facility County: Contra Costa

Name: UNITED MOLASSES
Address: 2055 WESTERN DR
City,State,Zip: RICHMOND, CA 94801
Year: 2010
GEPAID: CAC002645849
Contact: DON MOSTER
Telephone: 2174212452
Mailing Name: Not reported
Mailing Address: 2200 E EL DORADO ST
Mailing City,St,Zip: DECATUR, IL 62525
Gen County: Contra Costa
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Tons: 0.1
CA Waste Code: 181-Other inorganic solid waste
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

Name: UNITED MOLASSES
Address: 2055 WESTERN DR
City,State,Zip: RICHMOND, CA 94801
Year: 2009
GEPAID: CAC002645849
Contact: DON MOSTER
Telephone: 2174212452
Mailing Name: Not reported
Mailing Address: 2200 E EL DORADO ST
Mailing City,St,Zip: DECATUR, IL 62525
Gen County: Contra Costa
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Tons: 1.668
CA Waste Code: 223-Unspecified oil-containing waste
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

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**E17** **PORT OF RICHMOND TERMINAL 4 (FORMER VOPAK LEASEHOL** **FINDS** **1023292136**
**2055 WESTERN DRIVE** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Site 6 of 6 in cluster E**

**Relative: Lower**
FINDS:

**Actual: 34 ft.**
Registry ID: 110065836885

Environmental Interest/Information System
STATE MASTER

**PORT OF RICHMOND TERMINAL 4 (FORMER VOPAK LEASEHOLD) (Continued)** **1023292136**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

**F18** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S109288098**
**NFD POINT MOLATE** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 1 of 2 in cluster F**

**Relative:** MILITARY PRIV SITES:
**Higher**

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLA |
| Address: | NFD POINT MOLATE |
| City,State,Zip: | RICHMOND, CA 94804 |
| Global ID: | T0601331271 |
| Case Type: | Military Privatized Site |
| Status: | Completed - Case Closed |
| Status Date: | 11/20/2007 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Case Worker: | MB |
| Local Agency: | CONTRA COSTA COUNTY |
| RB Case Number: | 2119.1057 |
| Loc Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Contaminants of Concern: | Heating Oil / Fuel Oil, Diesel, Aviation |
| Potential Media Affected: | Soil |
| Site History: | Not reported |
| Begin Date: | 1998-12-01 00:00:00 |
| How Discovered: | Site Assessment/Site Investigation |
| How Discovered Description: | IN SUBSURFACE SOIL GASOLINE RANGE TPH WAS FOUND AT UP TO 8,000 MG/KG AND JP-5 AT UP TO 12,000 MG/KG FROM A DEPTH OF 23 FT. GROUNDWATER NOT ENCOUNTERED DOWN TO 29.9 FT |
| Stop Method: | Remove Contents |
| Stop Description: | TANK EMPTIED AND CLEANED. LEFT IN PLACE. |
| Latitude: | 37.948986 |
| Longitude: | -122.412887 |
| Geotracker: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601331271 |

**Actual:**
**255 ft.**

---

**F19** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **CERS** **S121753360**
**NFD POINT MOLATE** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 2 of 2 in cluster F**

**Relative:** CERS:
**Higher**

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLATE US |
| Address: | NFD POINT MOLATE |
| City,State,Zip: | RICHMOND, CA 94804 |
| Site ID: | 229015 |
| CERS ID: | T0601331271 |
| CERS Description: | Military Privatized Site |

**Actual:**
**255 ft.**

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | MELISSA HAGEN - CONTRA COSTA COUNTY |
| Entity Title: | Not reported |

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S121753360**

| | |
|---|---|
| Affiliation Address: | 4333 PACHECO BOULEVARD |
| Affiliation City: | MARTINEZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9256462286 |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay Street, 14th Floor |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 5106222338 |

---

**G20** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **CERS** **S121752630**
**DIESEL RD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 1 of 2 in cluster G**

**Relative: Lower**
**Actual: 130 ft.**

CERS:

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLATE US |
| Address: | DIESEL RD |
| City,State,Zip: | RICHMOND, CA 94804 |
| Site ID: | 216907 |
| CERS ID: | T0601386317 |
| CERS Description: | Military Privatized Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | PAUL ANDREWS - CONTRA COSTA CO. ENVIR. HEALTH DIV. |
| Entity Title: | Not reported |
| Affiliation Address: | 4333 PACHECO BOULEVARD |
| Affiliation City: | MARTINEZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay Street, 14th Floor |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 5106222338 |

**21** **GW MON & NPDES PACKAGED TREATMENT SYSTEM** **CPS-SLIC** **S112142811**
**WESTERN ROAD** **CERS** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Relative:** CPS-SLIC:
**Lower**

| | |
|---|---|
| Name: | GW MON & NPDES PACKAGED TREATMENT SYSTEM |
| Address: | WESTERN ROAD |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | STATE |
| **Facility Status:** | **Completed - Case Closed** |
| Status Date: | 10/08/2015 |
| Global Id: | T0609592137 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 37.9499506653193 |
| Longitude: | -122.418122291565 |
| Case Type: | Cleanup Program Site |
| Case Worker: | DCE |
| Local Agency: | Not reported |
| RB Case Number: | 2119.1057 |
| File Location: | Regional Board |
| Potential Media Affected: | Soil, Soil Vapor, Surface water |
| Potential Contaminants of Concern: | Not reported |
| Site History: | On October 8, 2015, the Water Board issued a Rescission of Authorization to Discharge for this NPDES permitted facility. |

**Actual:**
**19 ft.**

Click here to access the California GeoTracker records for this facility:

CERS:

| | |
|---|---|
| Name: | GW MON & NPDES PACKAGED TREATMENT SYSTEM |
| Address: | WESTERN ROAD |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 245613 |
| CERS ID: | T0609592137 |
| CERS Description: | Cleanup Program Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | DAVID ELIAS - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 CLAY STREET, SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**H22** **POINT MOLATE NAVAL FUEL DEPOT & CITY OF RICHMOND W** **CIWQS** **S120033292**
**N/A**
**< 1/8** **CONTRA COSTA (County), CA**
**1 ft.**

**Site 1 of 2 in cluster H**

**Relative:** CIWQS:
**Lower**

| | |
|---|---|
| Name: | POINT MOLATE NAVAL FUEL DEPOT & CITY OF RICHMOND WETLANDS SITE IR 3 |
| Address: | Not reported |
| City,State,Zip: | CA |
| Agency: | City of Richmond |

**Actual:**
**45 ft.**

**POINT MOLATE NAVAL FUEL DEPOT & CITY OF RICHMOND WETLANDS SI (Continued)** **S120033292**

| | |
|---|---|
| Agency Address: | 450 Civic Center Plaza, Richmond, CA 94804 |
| Place/Project Type: | Dredge/Fill Site |
| SIC/NAICS: | Not reported |
| Region: | 2 |
| Program: | CERFILLEXC |
| Regulatory Measure Status: | Active |
| Regulatory Measure Type: | 401 Certification |
| Order Number: | Not reported |
| WDID: | 2 CW397107 |
| NPDES Number: | Not reported |
| Adoption Date: | Not reported |
| Effective Date: | 07/21/2014 |
| Termination Date: | Not reported |
| Expiration/Review Date: | 07/21/2019 |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 0 |
| Violations within 5 years: | 0 |
| Latitude: | 37.94974 |
| Longitude: | -122.41691 |

---

**H23** **POINT MOLATE NAVAL FUEL DEPOT & CITY OF RICHMOND W** **CERS** **S121757231**
**N/A**

**< 1/8** **, CA 94801**
**1 ft.**

**Site 2 of 2 in cluster H**

**Relative:** CERS:
**Lower**

| | |
|---|---|
| Name: | POINT MOLATE NAVAL FUEL DEPOT & CITY OF RICHMOND WETLANDS SITE IR 3 |
| Address: | Not reported |
| City,State,Zip: | CA 94801 |
| Site ID: | 267715 |
| CERS ID: | 784956 |
| CERS Description: | Wetlands - Fill and Dredge Material |

**Actual:** Affiliation:
**45 ft.**

| | |
|---|---|
| Affiliation Type Desc: | Owner and Operator |
| Entity Name: | CITY OF RICHMOND |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**G24** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S109288103**
**DIESEL RD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 2 of 2 in cluster G**

**Relative:** MILITARY PRIV SITES:
**Lower**

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLA |
| Address: | DIESEL RD |
| City,State,Zip: | RICHMOND, CA 94804 |
| Global ID: | T0601386317 |
| Case Type: | Military Privatized Site |
| Status: | Completed - Case Closed |
| Status Date: | 08/22/2006 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Case Worker: | MB |
| Local Agency: | Not reported |
| RB Case Number: | 2119.1057 |
| Loc Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Contaminants of Concern: | Heating Oil / Fuel Oil, Diesel, Aviation |
| Potential Media Affected: | Soil |
| Site History: | UST 1 is located on a bedrock ridge. Groundwater was not encountered in the boreholes (at a maximum depth of 29.9 feet). At other nearby tank locations perched groundwater was only found in small areas in the fill or weathered bedrock during the wet season. There are no nearby surface water seeps that could provide complete human exposure pathways to potentially impacted ground or surface water. Based on the results of the soil investigation, this site does not pose significant risk to human health or the environment. In accordance with the Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites (SFRWQCB January 5, 1996), this site is considered a low-risk fuel site. This is based on the fact that there is no ongoing source, no free product, the site has been adequately characterized, there is little or no groundwater impact, no drinking water well or surface water is likely to be impacted, and the site presents no significant risk to human health or the environment. |
| Begin Date: | 1999-04-01 00:00:00 |
| How Discovered: | Site Assessment/Site Investigation |
| How Discovered Description: | THREE BOREHOLES WERE DRILLED AROUND THE TANK IN 1999. HYDROCARBON STAINING WAS FOUND BOREHOLES ON THE NE AND SW SIDES. THE HIGHEST CONCENTRATION WAS FOR TPHD OF 8,960 MG/KG. |
| Stop Method: | Other Means |
| Stop Description: | FACILITY CLOSED IN 1996 |
| Latitude: | 37.948394 |
| Longitude: | -122.419496 |
| Geotracker: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601386317 |

**Actual:**
**130 ft.**

---

**I25** **PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MO** **ENF** **S113881401**
**WESTERN DRIVE** **CIWQS** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Site 1 of 2 in cluster I**

**Relative:** ENF:
**Lower**

| | |
|---|---|
| Name: | PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE |
| Address: | WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | 2 |

**Actual:**
**61 ft.**

**PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE (Continued)** **S113881401**

| | |
|---|---|
| Facility Id: | 657165 |
| Agency Name: | City of Richmond |
| Place Type: | Service/Commercial |
| Place Subtype: | Service/Commercial Site, NEC |
| Facility Type: | All other facilities |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.950833 |
| Place Longitude: | -122.416111 |
| SIC Code 1: | Not reported |
| SIC Desc 1: | Not reported |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | Not reported |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDNONMUNIPRCS |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 2 071057005 |
| Reg Measure Id: | 383555 |
| Reg Measure Type: | Enrollee |
| Region: | 2 |
| Order #: | R2-2012-0012 |
| Npdes# CA#: | CAG912002 |
| Major-Minor: | Minor |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 10/08/2015 |
| Effective Date: | 03/15/2012 |
| Expiration/Review Date: | 03/15/2017 |
| Termination Date: | 10/08/2015 |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |

**PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE (Continued)** **S113881401**

| | |
|---|---|
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Y |
| Individual/General: | I |
| Fee Code: | 62 - Treatment system to meet priority pollutant limit Category 1 |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 404730 |
| Region: | 2 |
| Order / Resolution Number: | R2-2016-1010 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 05/17/2016 |
| Adoption/Issuance Date: | 05/17/2016 |
| Achieve Date: | Not reported |
| Termination Date: | 06/21/2016 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | 03/07/2016 |
| Status: | Historical |
| Title: | ACL R2-2016-1010 for City of Richmond |
| Description: | MMP |
| Program: | NPDNONMUNIPRCS |
| Latest Milestone Completion Date: | 2016-06-17 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 15000 |
| Initial Assessed Amount: | 7500 |
| Liability $ Amount: | 7500 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 7500 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 7500 |

CIWQS:

| | |
|---|---|
| Name: | PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE |
| Address: | WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Agency: | US Navy San Diego BRAC |
| Agency Address: | 1455 Frazee Road 900, San Diego, CA 92108-4310 |
| Place/Project Type: | Service/Commercial Site, NEC |
| SIC/NAICS: | Not reported |
| Region: | 2 |
| Program: | NPDNONMUNIPRCS |
| Regulatory Measure Status: | Historical |
| Regulatory Measure Type: | Enrollee |
| Order Number: | R2-2006-0075 |
| WDID: | 2 071057003 |
| NPDES Number: | CAG912002 |
| Adoption Date: | 11/13/2006 |
| Effective Date: | 09/19/2001 |
| Termination Date: | 07/06/2010 |
| Expiration/Review Date: | 01/12/2012 |
| Design Flow: | Not reported |
| Major/Minor: | Minor |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 1 |
| Violations within 5 years: | 6 |
| Latitude: | 37.950833 |
| Longitude: | -122.416111 |

**PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE (Continued)** **S113881401**

| | |
|---|---|
| Name: | PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE |
| Address: | WESTERN DRIVE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Agency: | City of Richmond |
| Agency Address: | 440 Civic Center Plaza, Richmond, CA 94804 |
| Place/Project Type: | Service/Commercial Site, NEC |
| SIC/NAICS: | Not reported |
| Region: | 2 |
| Program: | NPDNONMUNIPRCS |
| Regulatory Measure Status: | Historical |
| Regulatory Measure Type: | Enrollee |
| Order Number: | R2-2006-0075 |
| WDID: | 2 071057004 |
| NPDES Number: | CAG912002 |
| Adoption Date: | Not reported |
| Effective Date: | Not reported |
| Termination Date: | 03/14/2012 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Minor |
| Complexity: | B |
| TTWQ: | 2 |
| Enforcement Actions within 5 years: | 1 |
| Violations within 5 years: | 6 |
| Latitude: | 37.950833 |
| Longitude: | -122.416111 |

---

**J26** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **CERS** **S121750986**
**G ROAD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 1 of 2 in cluster J**

**Relative:** **Higher**
**Actual:** **210 ft.**

CERS:

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLATE US |
| Address: | G ROAD |
| City,State,Zip: | RICHMOND, CA 94804 |
| Site ID: | 192245 |
| CERS ID: | T0601362059 |
| CERS Description: | Military Privatized Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | MELISSA HAGEN - CONTRA COSTA COUNTY |
| Entity Title: | Not reported |
| Affiliation Address: | 4333 PACHECO BOULEVARD |
| Affiliation City: | MARTINEZ |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9256462286 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay Street, 14th Floor |
| Affiliation City: | OAKLAND |

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S121750986**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5106222338

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**J27** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **MILITARY PRIV SITES** **S109288131**
**G ROAD** **N/A**
**< 1/8** **RICHMOND, CA 94804**
**1 ft.**

**Site 2 of 2 in cluster J**

**Relative:** MILITARY PRIV SITES:
**Higher**

**Actual:** Name: RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - NFD PT MOLA
**210 ft.** Address: G ROAD
City,State,Zip: RICHMOND, CA 94804
Global ID: T0601362059
Case Type: Military Privatized Site
Status: Completed - Case Closed
Status Date: 10/03/2007
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MB
Local Agency: CONTRA COSTA COUNTY
RB Case Number: 2119.1057
Loc Case Number: Not reported
File Location: Regional Board
Potential Contaminants of Concern: Heating Oil / Fuel Oil, Diesel
Potential Media Affected: Soil
Site History: UST#9 was installed in 1943 at the same time as the 19 other large tanks located on the hillsides and has the same concrete construction. UST#9 had a capacity of 50,000 barrels (2,100,000 gallons) and was unlined, with an interior height of 20 feet, interior diameter of 135.33 feet, and walls 1 to 1.5 feet thick. Approximately 250 feet of buried, 16-inch-diameter product piping extended south from UST#9 to VB21. Originally, the Navy used UST#9 to store special fuel oil (bunker fuel), with subsequent uses for diesel fuel, and finally F-76 or marine diesel fuel from April 1975 until 1995. According to NFD Point Molate personnel in an interview, there was one documented release from the tank down-gradient towards VB21, but the release date and fuel type are unknown. According to the unauthorized release/contamination site report, the bottom tank valve was the apparent source of leakage due to loose-fitting piping. UST#9 was certified clean and product-free on December 12, 1995, and has not been used since that date. During the construction for structural in-place closure in 2004 and 2005, any standing fluids in the tank were removed; rust, scale, and silt were removed from the base of the tank; its associated piping was cleaned and left in place; the aboveground structure (doghouse) was demolished; permanent plugs were placed in all pipe terminations (including the bottom perimeter drain) in the valve pit; the valve pit was backfilled; a subsurface French drain with a minimum of two surface outfalls was installed around the UST roof perimeter; and two man-way extensions were added for future access to the UST interior.
Begin Date: 1999-04-01 00:00:00
How Discovered: Site Assessment/Site Investigation
How Discovered Description: SUBSURFACE SOIL SAMPLE FROM 26 FT BGS CONTAINED TPHD AT UP TO 49,000 MG/KG AND TPHG AT UP TO 2050 MG/KG. GROUNDWATER CONTAINED TPHD AT UP TO 49,000 PPB, TPHG AT UP TO 2050 PPB, AND BTEX BELOW ESLS (TABLE F).

**RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-I (Continued)** **S109288131**

| | |
|---|---|
| Stop Method: | Remove Contents |
| Stop Description: | Not reported |
| Latitude: | 37.951313 |
| Longitude: | -122.414442 |
| Geotracker: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601362059 |

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**28** **RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC)** **CERS** **S123530702**
**N/A**

**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Relative:** **Lower**
**Actual:** **41 ft.**

CERS:

| | |
|---|---|
| Name: | RICHMOND (POINT MOLATE) NAVAL SUPPLY CENTER (NSC) - BRAC I-II - RICHMOND (POINT |
| Address: | Not reported |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 513191 |
| CERS ID: | T10000009718 |
| CERS Description: | Military Privatized Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | MARGARETE BETH - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 Clay Street, 14th Floor |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 5106222338 |

---

**A29** **DUTRA MATERIALS** **US MINES** **1016467430**
**N/A**

**< 1/8** **CONTRA COSTA (County), CA**
**1 ft.**

**Site 5 of 5 in cluster A**

**Relative:** **Lower**
**Actual:** **184 ft.**

US MINES:

| | |
|---|---|
| Sic Code(s): | 142900 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Mine ID: | 0400228 |
| Entity Name: | RICHMOND QUARRY |
| Company: | DUTRA MATERIALS |
| Status: | 4 |
| Status Date: | 19980312 |
| Operation Class: | 2 |
| Number of Shops: | 0 |
| Number of Plants: | 0 |
| Latitude Degree: | 00 |
| Longitude Degree: | 000 |
| Latitude Minute: | 00 |
| Latitude Seconds: | 00 |

**DUTRA MATERIALS (Continued)** **1016467430**

Longitude Minutes: 00
Longitude Seconds: 00
Number of Pits: 000

---

**I30** **PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MO** **CERS** **S121764704**
**WESTERN** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**1 ft.**

**Site 2 of 2 in cluster I**

**Relative: Lower**
**Actual: 61 ft.**

CERS:
Name: PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE
Address: WESTERN
City,State,Zip: RICHMOND, CA 94801
Site ID: 352317
CERS ID: 657165
CERS Description: NPDES Wastewater and Stormwater

Violations:
Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 08-06-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: non-compliance on the 24-hr notification and written report requirements with effluent limit violation
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 08-06-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Diesel Oil Daily Maximum limit is 50 ug/L and reported value was 1300 ug/L.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 10-05-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: TPH(D) permit limit - 50 ug/L; exceeded limit at 55 ug/L.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 10-05-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: TPH-D eff sample was 59 ug/L. Permit limit is 50 ug/L.
Violation Division: Water Boards

**PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE (Continued)** **S121764704**

Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 08-06-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Diesel Oil Daily Maximum limit is 50 ug/L and reported value was 1100 ug/L.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 10-05-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: TPH-diesel Eff confirmation sample was 81 ug/L. Permit limit is 50 ug/L.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 08-06-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Gasoline Daily Maximum limit is 50 ug/L and reported value was 150 ug/L.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Violation Date: 08-06-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Gasoline Daily Maximum limit is 50 ug/L and reported value was 96 ug/L.
Violation Division: Water Boards
Violation Program: NPDNONMUNI
Violation Source: CIWQS

Enforcement Action:
Site ID: 352317
Site Name: Packaged Groundwater Treatment Plant, NFD Point Molate
Site Address: WESTERN
Site City: RICHMOND
Site Zip: 94801
Enf Action Date: 05-17-2016
Enf Action Type: Administrative Enforcement with Penality
Enf Action Description: Administrative Enforcement with Civil Liability (Penality)
Enf Action Notes: Not reported

**PACKAGED GROUNDWATER TREATMENT PLANT, NFD POINT MOLATE (Continued)** **S121764704**

Enf Action Division: Water Boards
Enf Action Program: UNSPEC
Enf Action Source: CIWQS

Affiliation:
Affiliation Type Desc: Owner and Operator
Entity Name: CITY OF RICHMOND
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

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**31** **POINT MOLATE IR SITE 3** **HAZNET** **S117348230**
**2100 STENMARK DRIVE** **NPDES** **N/A**
**< 1/8** **RICHMOND, CA 94804** **CIWQS**
**1 ft.**

**Relative:** **Lower**
**Actual:** **20 ft.**

HAZNET:
Name: CITY OF RICHMOND
Address: 2100 STENMARK DRIVE
City,State,Zip: RICHMOND, CA 94804
Year: 2015
GEPAID: CAC002838590
Contact: CRAIG MURRAY
Telephone: 5103078188
Mailing Name: Not reported
Mailing Address: 450 CIVIC CENTER PLZ
Mailing City,St,Zip: RICHMOND, CA 948041630
Gen County: Contra Costa
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Tons: 0.34
CA Waste Code: 343-Unspecified organic liquid mixture
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

Name: CITY OF RICHMOND
Address: 2100 STENMARK DRIVE
City,State,Zip: RICHMOND, CA 94804
Year: 2015
GEPAID: CAC002838590
Contact: CRAIG MURRAY
Telephone: 5103078188
Mailing Name: Not reported
Mailing Address: 450 CIVIC CENTER PLZ
Mailing City,St,Zip: RICHMOND, CA 948041630
Gen County: Contra Costa
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Tons: 0.34
CA Waste Code: 343-Unspecified organic liquid mixture
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

(H010-H129) Or (H131-H135)
Facility County: Contra Costa

NPDES:

| | |
|---|---|
| Name: | POINT MOLATE IR SITE 3 |
| Address: | 2100 STENMARK DRIVE |
| City,State,Zip: | RICHMOND, CA 94804 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 2 07C370778 |
| Regulatory Measure Type: | Construction |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Terminated |
| Status Date: | 02/09/2017 |
| Operator Name: | City of Richmond Engineering Services Department |
| Operator Address: | 450 Civic Center Plaza |
| Operator City: | Richmond |
| Operator State: | California |
| Operator Zip: | 94804 |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 2 |
| Regulatory Measure ID: | 449157 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Construction |
| Place ID: | Not reported |
| WDID: | 2 07C370778 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 02/06/2017 |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 09/03/2014 |
| Processed Date: | 09/04/2014 |
| Status: | Terminated |

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

| | |
|---|---|
| Status Date: | 02/09/2017 |
| Place Size: | 11.4 |
| Place Size Unit: | Acres |
| Contact: | Craig Murray |
| Contact Title: | Not reported |
| Contact Phone: | 510-307-8188 |
| Contact Phone Ext: | Not reported |
| Contact Email: | craig_murray@ci.richmond.ca.us |
| Operator Name: | City of Richmond Engineering Services Department |
| Operator Address: | 450 Civic Center Plaza |
| Operator City: | Richmond |
| Operator State: | California |
| Operator Zip: | 94804 |
| Operator Contact: | Craig Murray |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | 510-307-8188 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | craig_murray@ci.richmond.ca.us |
| Operator Type: | City/Town Agency |
| Developer: | Pacific States Environmental Contractors |
| Developer Address: | 11555 Dublin Blvd |
| Developer City: | Dublin |
| Developer State: | California |
| Developer Zip: | 94568 |
| Developer Contact: | Dennis Robinson |
| Developer Contact Title: | Project Manager |
| Constype Linear Utility Ind: | N |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | N |
| Constype Below Ground Ind: | N |
| Constype Cable Line Ind: | N |
| Constype Comm Line Ind: | N |
| Constype Commertial Ind: | N |
| Constype Electrical Line Ind: | N |
| Constype Gas Line Ind: | N |
| Constype Industrial Ind: | N |
| Constype Other Description: | Remediation |
| Constype Other Ind: | Y |
| Constype Recons Ind: | N |
| Constype Residential Ind: | N |
| Constype Transport Ind: | N |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | N |
| Constype Water Sewer Ind: | N |
| Dir Discharge Uswater Ind: | Y |
| Receiving Water Name: | San Pablo Bay |
| Certifier: | Chadrick Smalley |
| Certifier Title: | Wastewater Manager |
| Certification Date: | 25-AUG-15 |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000002 |
| Status: | Terminated |
| Agency Number: | 0 |

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

| | |
|---|---|
| Region: | 2 |
| Regulatory Measure ID: | 449157 |
| Order Number: | 2009-0009-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 2 07C370778 |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 09/04/2014 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 02/06/2017 |
| Discharge Name: | City of Richmond Engineering Services Department |
| Discharge Address: | 450 Civic Center Plaza |
| Discharge City: | Richmond |
| Discharge State: | California |
| Discharge Zip: | 94804 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

| | |
|---|---|
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | POINT MOLATE IR SITE 3 |
| Address: | 2100 STENMARK DRIVE |
| City,State,Zip: | RICHMOND, CA 94804 |
| Facility Status: | Terminated |
| NPDES Number: | CAS000002 |
| Region: | 2 |
| Agency Number: | 0 |
| Regulatory Measure ID: | 449157 |
| Place ID: | Not reported |
| Order Number: | 2009-0009-DWQ |
| WDID: | 2 07C370778 |
| Regulatory Measure Type: | Enrollee |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 09/04/2014 |
| Termination Date Of Regulatory Measure: | 02/06/2017 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | 450 Civic Center Plaza |
| Discharge Name: | City of Richmond Engineering Services Department |
| Discharge City: | Richmond |
| Discharge State: | California |
| Discharge Zip: | 94804 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 2 |
| Regulatory Measure ID: | 449157 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Construction |
| Place ID: | Not reported |
| WDID: | 2 07C370778 |
| Program Type: | Not reported |

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

| | |
|---|---|
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 02/06/2017 |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 09/03/2014 |
| Processed Date: | 09/04/2014 |
| Status: | Terminated |
| Status Date: | 02/09/2017 |
| Place Size: | 11.4 |
| Place Size Unit: | Acres |
| Contact: | Craig Murray |
| Contact Title: | Not reported |
| Contact Phone: | 510-307-8188 |
| Contact Phone Ext: | Not reported |
| Contact Email: | craig_murray@ci.richmond.ca.us |
| Operator Name: | City of Richmond Engineering Services Department |
| Operator Address: | 450 Civic Center Plaza |
| Operator City: | Richmond |
| Operator State: | California |
| Operator Zip: | 94804 |
| Operator Contact: | Craig Murray |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | 510-307-8188 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | craig_murray@ci.richmond.ca.us |
| Operator Type: | City/Town Agency |
| Developer: | Pacific States Environmental Contractors |
| Developer Address: | 11555 Dublin Blvd |
| Developer City: | Dublin |
| Developer State: | California |
| Developer Zip: | 94568 |
| Developer Contact: | Dennis Robinson |
| Developer Contact Title: | Project Manager |
| Constype Linear Utility Ind: | N |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | N |
| Constype Below Ground Ind: | N |
| Constype Cable Line Ind: | N |
| Constype Comm Line Ind: | N |
| Constype Commertial Ind: | N |
| Constype Electrical Line Ind: | N |
| Constype Gas Line Ind: | N |
| Constype Industrial Ind: | N |
| Constype Other Description: | Remediation |
| Constype Other Ind: | Y |
| Constype Recons Ind: | N |
| Constype Residential Ind: | N |
| Constype Transport Ind: | N |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | N |
| Constype Water Sewer Ind: | N |

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

| | |
|---|---|
| Dir Discharge Uswater Ind: | Y |
| Receiving Water Name: | San Pablo Bay |
| Certifier: | Chadrick Smalley |
| Certifier Title: | Wastewater Manager |
| Certification Date: | 25-AUG-15 |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CAS000002 |
| Status: | Terminated |
| Agency Number: | 0 |
| Region: | 2 |
| Regulatory Measure ID: | 449157 |
| Order Number: | 2009-0009-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 2 07C370778 |
| Program Type: | Construction |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 09/04/2014 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 02/06/2017 |
| Discharge Name: | City of Richmond Engineering Services Department |
| Discharge Address: | 450 Civic Center Plaza |
| Discharge City: | Richmond |
| Discharge State: | California |
| Discharge Zip: | 94804 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |

**POINT MOLATE IR SITE 3 (Continued)** **S117348230**

| | |
|---|---|
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

CIWQS:

| | |
|---|---|
| Name: | POINT MOLATE IR SITE 3 |
| Address: | 2100 STENMARK DRIVE |
| City,State,Zip: | RICHMOND, CA 94804 |
| Agency: | City of Richmond Engineering Services Department |
| Agency Address: | 450 Civic Center Plaza, Richmond, CA 94804 |
| Place/Project Type: | Construction - Other: Remediation |
| SIC/NAICS: | Not reported |
| Region: | 2 |
| Program: | CONSTW |
| Regulatory Measure Status: | Terminated |
| Regulatory Measure Type: | Storm water construction |
| Order Number: | 2009-0009-DWQ |
| WDID: | 2 07C370778 |
| NPDES Number: | CAS000002 |
| Adoption Date: | Not reported |
| Effective Date: | 09/04/2014 |
| Termination Date: | 02/06/2017 |
| Expiration/Review Date: | Not reported |
| Design Flow: | Not reported |
| Major/Minor: | Not reported |
| Complexity: | Not reported |
| TTWQ: | Not reported |
| Enforcement Actions within 5 years: | 1 |
| Violations within 5 years: | 2 |
| Latitude: | 37.943932 |
| Longitude: | -122.411313 |

**K32** **PAKTANK RICHMOND INC** **RCRA-SQG** **1000396201**
**SSE** **2101 WESTERN DR** **LUST** **CAD066571498**
**< 1/8** **RICHMOND, CA 94801** **SWEEPS UST**
**0.029 mi.** **HIST UST**
**152 ft.** **Site 1 of 2 in cluster K** **CA FID UST**
**HIST CORTESE**
**Relative:** **CONTRA COSTA CO. SITE LIST**
**Lower** **CERS**

**Actual:**
**30 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 09/01/1996 |
| Facility name: | PAKTANK RICHMOND INC |
| Facility address: | 2101 WESTERN DR<br>RICHMOND, CA 94801 |
| EPA ID: | CAD066571498 |
| Contact: | Not reported |
| Contact address: | Not reported<br>Not reported |
| Contact country: | US |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Land type: | Facility is not located on Indian land. Additional information is not known. |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | PAKTANK RICHMOND INC |
| Owner/operator address: | 2101 WESTERN DR<br>CITY NOT REPORTED, CA 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | 713-623-0000 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | PAKTANK RICHMOND INC |
| Owner/operator address: | 2101 WESTERN DR<br>RICHMOND, CA 94801 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | 713-623-0000 |
| Owner/operator email: | Not reported |
| Owner/operator fax: | Not reported |
| Owner/operator extension: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

**PAKTANK RICHMOND INC (Continued)** **1000396201**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: PAKTANK RICHMOND INC
Classification: Small Quantity Generator

Date form received by agency: 02/26/1992
Site name: PAKTANK RICHMOND INC
Classification: Large Quantity Generator

Date form received by agency: 03/20/1990
Site name: PAKTANK RICHMOND INC
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: PAKTANK RICHMOND INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/31/1994
Date achieved compliance: 08/31/1999
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/26/1992
Date achieved compliance: 08/31/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported

**PAKTANK RICHMOND INC (Continued)** **1000396201**

Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 05/19/1992
Date achieved compliance: 08/26/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/27/1985
Date achieved compliance: 08/27/1985
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/31/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/31/1999
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 08/26/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/31/1994
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 05/19/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/26/1992
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 08/27/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/27/1985

**PAKTANK RICHMOND INC (Continued)** **1000396201**

Evaluation lead agency: State

LUST:
Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City,State,Zip: RICHMOND, CA 94801
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300447
Global Id: T0601300447
Latitude: 37.9322
Longitude: -122.399
Status: Completed - Case Closed
Status Date: 04/02/2007
Case Worker: BGS
RB Case Number: 07-0484
Local Agency: CONTRA COSTA COUNTY
File Location: Not reported
Local Case Number: 16013
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0601300447
Contact Type: Regional Board Caseworker
Contact Name: BARBARA SIEMINSKI
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: bsieminski@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0601300447
Contact Type: Local Agency Caseworker
Contact Name: SUE LOYD
Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BLVD.
City: MARTINEZ
Email: sloyd@hsd.co.contra-costa.ca.us
Phone Number: Not reported

LUST:
Global Id: T0601300447
Action Type: ENFORCEMENT
Date: 11/16/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0601300447
Action Type: Other
Date: 10/14/1986
Action: Leak Stopped

Global Id: T0601300447
Action Type: Other
Date: 10/14/1986
Action: Leak Reported

**PAKTANK RICHMOND INC (Continued)** **1000396201**

Global Id: T0601300447
Action Type: Other
Date: 10/14/1986
Action: Leak Discovery

Global Id: T0601300447
Action Type: ENFORCEMENT
Date: 04/02/2007
Action: Closure/No Further Action Letter

LUST:
Global Id: T0601300447
Status: Completed - Case Closed
Status Date: 04/02/2007

Global Id: T0601300447
Status: Open - Case Begin Date
Status Date: 10/14/1986

Global Id: T0601300447
Status: Open - Site Assessment
Status Date: 05/03/1994

LUST REG 2:
Region: 2
Facility Id: 07-0484
Facility Status: Leak being confirmed
Case Number: 16013
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 5/3/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City: RICHMOND
Status: Not reported
Comp Number: 16013
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-016013-000001
Tank Status: Not reported
Capacity: 10000

**PAKTANK RICHMOND INC (Continued)** **1000396201**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 1

HIST UST:
Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City,State,Zip: RICHMOND, CA 94801
File Number: 00022DF3
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00022DF3.pdf
Region: STATE
Facility ID: 00000016013
Facility Type: Other
Other Type: BULK LIQUID TERMINAL
Contact Name: R.S. JOBE, MANAGER
Telephone: 4152330418
Owner Name: PAKTANK CORPORATION
Owner Address: 2000 WEST LOOP SOUTH-SUITE 180
Owner City,St,Zip: HOUSTON, TX 77027
Total Tanks: 0005

Tank Num: 001
Container Num: 2
Year Installed: 1967
Tank Capacity: 00012500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 5
Year Installed: 1975
Tank Capacity: 00002100
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 003
Container Num: 1
Year Installed: 1950
Tank Capacity: 00000420
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: 3
Year Installed: 1944
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported

**PAKTANK RICHMOND INC (Continued)** **1000396201**

Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 4
Year Installed: 1950
Tank Capacity: 00000630
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 07000577
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4152330418
Mail To: Not reported
Mailing Address: 2000 W LOOP SOUTH-SUITE
Mailing Address 2: Not reported
Mailing City,St,Zip: RICHMOND 94801
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:
edr_fname: PAKTANK CORPORATION
edr_fadd1: 2101 WESTERN
City,State,Zip: RICHMOND, CA 94801
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0484

CONTRA COSTA CO. SITE LIST:
Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City: RICHMOND
Facility ID: FA0031804
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 716013

Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City: RICHMOND
Facility ID: FA0031804

**PAKTANK RICHMOND INC (Continued)** **1000396201**

Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: 5 - <12 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 716013

Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City: RICHMOND
Facility ID: FA0031804
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 716013

CERS:
Name: PAKTANK CORPORATION
Address: 2101 WESTERN DR
City,State,Zip: RICHMOND, CA 94801
Site ID: 211834
CERS ID: T0601300447
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: BARBARA SIEMINSKI - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET, SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

---

**K33** **STARLIGHT MARINE** **EDR Hist Auto** **1022109827**
**SSE** **2101 WESTERN DR** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**0.029 mi.**
**152 ft.** **Site 2 of 2 in cluster K**

**Relative:** EDR Hist Auto
**Lower**

**Actual:** Year: Name: Type:
**30 ft.** 2006 STARLIGHT MARINE Gasoline Service Stations, NEC
2006 STARLIGHT MARINE Gasoline Service Stations, NEC
2007 STARLIGHT MARINE Gasoline Service Stations, NEC

**L34** **POINT MOLATE** **WMUDS/SWAT** **S104156226**
**NNW** **FUEL DEPO NSCO,POINT MOLATE** **N/A**
**< 1/8** **RICHMOND CA, CA 94801**
**0.032 mi.**
**171 ft.** **Site 1 of 4 in cluster L**

**Relative:** **Lower**

**Actual:** **21 ft.**

WMUDS/SWAT:

| | |
|---|---|
| Edit Date: | Not reported |
| Complexity: | Not reported |
| Primary Waste: | CNWTRS |
| Primary Waste Type: | Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards. |
| Secondary Waste: | Not reported |
| Secondary Waste Type: | Not reported |
| Base Meridian: | Not reported |
| NPID: | Not reported |
| Tonnage: | 0 |
| Regional Board ID: | Not reported |
| Municipal Solid Waste: | False |
| Superorder: | False |
| Open To Public: | False |
| Waste List: | False |
| Agency Type: | Federal |
| Agency Name: | US DEPT OF THE NAVY |
| Agency Department: | Not reported |
| Agency Address: | NAVAL SUPPLY CENTER |
| Agency City,St,Zip: | OAKLAND CA 946255000 |
| Agency Contact: | LCDR JIM NOLAN |
| Agency Telephone: | 5102317901 |
| Land Owner Name: | Not reported |
| Land Owner Address: | Not reported |
| Land Owner City,St,Zip: | Not reported |
| Land Owner Contact: | Not reported |
| Land Owner Phone: | Not reported |
| Region: | 2 |
| Facility Type: | Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III) |
| Facility Description: | Not reported |
| Facility Telephone: | Not reported |
| SWAT Facility Name: | Not reported |
| Primary SIC: | Not reported |
| Secondary SIC: | Not reported |
| Comments: | Not reported |
| Last Facility Editors: | Not reported |
| Waste Discharge System: | True |
| Solid Waste Assessment Test Program: | False |
| Toxic Pits Cleanup Act Program: | False |
| Resource Conservation Recovery Act: | False |
| Department of Defence: | False |
| Solid Waste Assessment Test Program: | Not reported |
| Threat to Water Quality: | Not reported |
| Sub Chapter 15: | True |
| Regional Board Project Officer: | L D |
| Number of WMUDS at Facility: | 1 |
| Section Range: | Not reported |
| RCRA Facility: | No |
| Waste Discharge Requirements: | A |
| Self-Monitoring Rept. Frequency: | Not reported |

**POINT MOLATE (Continued)** **S104156226**

Waste Discharge System ID: 2 071057N02
Solid Waste Information ID: Not reported

---

**L35** **RCRA-LQG** **1007198570**
**NNW** **NSC FUEL DEPTMENT,POINT MOLATE** **CA4170090021**
**< 1/8** **RICHMOND, CA 94801**
**0.032 mi.**
**171 ft.** **Site 2 of 4 in cluster L**

**Relative:** **Lower**

**Actual:** **21 ft.**

RCRA-LQG:
Date form received by agency: 04/30/1990
Facility name: Not reported
Facility address: NSC FUEL DEPTMENT,POINT MOLATE
RICHMOND, CA 94801-4098
EPA ID: CA4170090021
Contact: LEE I GASTILE
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 415-234-0211
Telephone ext.: 22
Contact email: Not reported
EPA Region: Not reported
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

**L36** **CAO-POINT MOLATE** **HIST CORTESE** **S105025793**
**NNW** **FUEL DEPO NSCO POINT MOLA** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**0.032 mi.**
**171 ft.** **Site 3 of 4 in cluster L**

**Relative:** **Lower**
**Actual:** **21 ft.**

HIST CORTESE:

| | |
|---|---|
| edr_fname: | CAO-POINT MOLATE |
| edr_fadd1: | FUEL DEPO NSCO POINT MOLA |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | CORTESE |
| Facility County Code: | 7 |
| Reg By: | WBC&D |
| Reg Id: | 2 071057N02 |

---

**L37** **POINT MOLATE/RICHMOND NSC** **RESPONSE** **S101716002**
**NNW** **300+ ACRES; IN THE PROTERO HILLS** **ENVIROSTOR** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**0.032 mi.**
**171 ft.** **Site 4 of 4 in cluster L**

**Relative:** **Lower**
**Actual:** **21 ft.**

RESPONSE:

| | |
|---|---|
| Name: | POINT MOLATE/RICHMOND NSC |
| Address: | 300+ ACRES; IN THE PROTERO HILLS |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility ID: | 7970002 |
| Site Type: | State Response |
| Site Type Detail: | Open Base |
| Acres: | Not reported |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | RWQCB 2 - San Francisco Bay |
| Lead Agency Description: | RWQCB 2 - San Francisco Bay |
| Project Manager: | Not reported |
| Supervisor: | Not reported |
| Division Branch: | Cleanup Sacramento |
| Site Code: | 200596 |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Assembly: | 15 |
| Senate: | 09 |
| Special Program Status: | Not reported |
| Status: | Refer: RWQCB |
| Status Date: | 07/22/1997 |
| Restricted Use: | NO |
| Funding: | DERA |
| Latitude: | 37.93722 |
| Longitude: | -122.4106 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC : | * WASTE OIL & MIXED OIL * Sludge - Paint |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | Not reported |
| Alias Type: | Not reported |

Completed Info:

| | |
|---|---|
| Completed Area Name: | Not reported |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Not reported |
| Completed Date: | Not reported |
| Comments: | Not reported |

**POINT MOLATE/RICHMOND NSC (Continued)** **S101716002**

| | |
|---|---|
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

ENVIROSTOR:

| | |
|---|---|
| Name: | POINT MOLATE/RICHMOND NSC |
| Address: | 300+ ACRES; IN THE PROTERO HILLS |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility ID: | 7970002 |
| Status: | Refer: RWQCB |
| Status Date: | 07/22/1997 |
| Site Code: | 200596 |
| Site Type: | State Response |
| Site Type Detailed: | Open Base |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | RWQCB 2 - San Francisco Bay |
| Lead Agency: | RWQCB 2 - San Francisco Bay |
| Program Manager: | Not reported |
| Supervisor: | Not reported |
| Division Branch: | Cleanup Sacramento |
| Assembly: | 15 |
| Senate: | 09 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | DERA |
| Latitude: | 37.93722 |
| Longitude: | -122.4106 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | * WASTE OIL & MIXED OIL * Sludge - Paint |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | Not reported |
| Alias Type: | Not reported |

Completed Info:

| | |
|---|---|
| Completed Area Name: | Not reported |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Not reported |
| Completed Date: | Not reported |
| Comments: | Not reported |

| | |
|---|---|
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |

**POINT MOLATE/RICHMOND NSC (Continued)** **S101716002**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**M38** **FUEL DEPT NSCO** **HIST UST** **U001599714**
**West** **POINT MOLAE SITE** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**0.055 mi.**
**293 ft.** **Site 1 of 3 in cluster M**

**Relative:** **Lower**
**Actual:** **2 ft.**

HIST UST:

| | |
|---|---|
| Name: | FUEL DEPT NSCO |
| Address: | POINT MOLAE SITE |
| City,State,Zip: | RICHMOND, CA 94801 |
| File Number: | 00022B35 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00022B35.pdf |
| Region: | STATE |
| Facility ID: | 00000059389 |
| Facility Type: | Other |
| Other Type: | U.S. NAVY FUEL DEPOT |
| Contact Name: | Not reported |
| Telephone: | 4152340211 |
| Owner Name: | FUEL DEPARTMENT, NAVAL SUPPLY |
| Owner Address: | WESTERN DRIVE |
| Owner City,St,Zip: | RICHMOND, CA 94801 |
| Total Tanks: | 0032 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1943 |
| Tank Capacity: | 02104850 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |
| | |
| Tank Num: | 002 |
| Container Num: | TWO |
| Year Installed: | 1943 |
| Tank Capacity: | 02112012 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |
| | |
| Tank Num: | 003 |
| Container Num: | THREE |
| Year Installed: | 1943 |
| Tank Capacity: | 02108526 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | 06 |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |
| | |
| Tank Num: | 004 |
| Container Num: | FOUR |
| Year Installed: | 1943 |
| Tank Capacity: | 02104704 |
| Tank Used for: | PRODUCT |

**FUEL DEPT NSCO (Continued)** **U001599714**

| | |
|---|---|
| Type of Fuel: | 06 |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 005 |
| Container Num: | FIVE |
| Year Installed: | 1943 |
| Tank Capacity: | 02104704 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 006 |
| Container Num: | SIX |
| Year Installed: | 1943 |
| Tank Capacity: | 02114280 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 007 |
| Container Num: | SEVEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02113608 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Not reported |

| | |
|---|---|
| Tank Num: | 008 |
| Container Num: | EIGHT |
| Year Installed: | 1943 |
| Tank Capacity: | 02111130 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 009 |
| Container Num: | NINE |
| Year Installed: | 1943 |
| Tank Capacity: | 02107098 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 010 |
| Container Num: | TEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02111592 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

**FUEL DEPT NSCO (Continued)** **U001599714**

| | |
|---|---|
| Tank Num: | 011 |
| Container Num: | ELEVEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02115330 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 012 |
| Container Num: | FOURTEEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02106468 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | 06 |
| Container Construction Thickness: | 20 |
| Leak Detection: | Not reported |

| | |
|---|---|
| Tank Num: | 013 |
| Container Num: | THIRTEEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02109576 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 014 |
| Container Num: | TWELVE |
| Year Installed: | 1943 |
| Tank Capacity: | 02109156 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 015 |
| Container Num: | FIFTEEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02111881 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | 06 |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 016 |
| Container Num: | SIXTEEN |
| Year Installed: | 1943 |
| Tank Capacity: | 00210832 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 017 |
| Container Num: | SEVENTEEN |
| Year Installed: | 1943 |

**FUEL DEPT NSCO (Continued)** **U001599714**

| | |
|---|---|
| Tank Capacity: | 02115288 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | 06 |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 018 |
| Container Num: | EIGHTEEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02104746 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | 06 |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 019 |
| Container Num: | NINETEEN |
| Year Installed: | 1943 |
| Tank Capacity: | 02113314 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | 06 |
| Container Construction Thickness: | 20 |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 020 |
| Container Num: | TWENTY |
| Year Installed: | 1943 |
| Tank Capacity: | 02108988 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 021 |
| Container Num: | 21 |
| Year Installed: | 1942 |
| Tank Capacity: | 01163778 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 022 |
| Container Num: | 22 |
| Year Installed: | 1942 |
| Tank Capacity: | 01163778 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 023 |
| Container Num: | 23 |
| Year Installed: | 1942 |
| Tank Capacity: | 01160964 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |

**FUEL DEPT NSCO (Continued)** **U001599714**

Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 024
Container Num: 24
Year Installed: 1942
Tank Capacity: 01163148
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 025
Container Num: BLDG. 84,
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 026
Container Num: POND 1
Year Installed: 1975
Tank Capacity: 00500000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: N/A
Leak Detection: Visual

Tank Num: 027
Container Num: 2 POND
Year Installed: 1975
Tank Capacity: 00500000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: N/A
Leak Detection: Visual

Tank Num: 028
Container Num: 3 POND
Year Installed: 1975
Tank Capacity: 00500000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: N/A
Leak Detection: Visual

Tank Num: 029
Container Num: IM HOFF
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Visual

**FUEL DEPT NSCO (Continued)** **U001599714**

| | |
|---|---|
| Tank Num: | 030 |
| Container Num: | B |
| Year Installed: | 1943 |
| Tank Capacity: | 00581994 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 031 |
| Container Num: | C |
| Year Installed: | 1943 |
| Tank Capacity: | 00100800 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor, Pressure Test |

| | |
|---|---|
| Tank Num: | 032 |
| Container Num: | MG-1 |
| Year Installed: | 1979 |
| Tank Capacity: | 00008000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Visual, Stock Inventor |

Click here for Geo Tracker PDF:

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**M39** **U S NAVY, FUEL DEPT., NSCO** **SWEEPS UST** **S101580885**
**West** **POINT MOLATE SITE** **CA FID UST** **N/A**
**< 1/8** **RICHMOND, CA 94801**
**0.056 mi.**
**298 ft.** **Site 2 of 3 in cluster M**

**Relative:** SWEEPS UST:
**Lower**

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000001 |
| Tank Status: | Not reported |
| Capacity: | 2104850 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | DIESEL |
| Number Of Tanks: | 27 |

**Actual:**
**0 ft.**

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

| | |
|---|---|
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000002 |
| Tank Status: | Not reported |
| Capacity: | 2112012 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | DIESEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000003 |
| Tank Status: | Not reported |
| Capacity: | 2108526 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | JET FUEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000004 |
| Tank Status: | Not reported |
| Capacity: | 2104704 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | JET FUEL |
| Number Of Tanks: | Not reported |

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000005 |
| Tank Status: | Not reported |
| Capacity: | 2104704 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | DIESEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000006 |
| Tank Status: | Not reported |
| Capacity: | 2114280 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | DIESEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000007 |
| Tank Status: | Not reported |
| Capacity: | 2113608 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000008
Tank Status: Not reported
Capacity: 2111130
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000009
Tank Status: Not reported
Capacity: 2107098
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000010
Tank Status: Not reported
Capacity: 2111592

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000011
Tank Status: Not reported
Capacity: 2115330
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000012
Tank Status: Not reported
Capacity: 2106468
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: JET FUEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

SWRCB Tank Id: 07-000-059389-000013
Tank Status: Not reported
Capacity: 2109576
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000014
Tank Status: Not reported
Capacity: 2109156
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000015
Tank Status: Not reported
Capacity: 2111881
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: JET FUEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

| | |
|---|---|
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000016 |
| Tank Status: | Not reported |
| Capacity: | 210832 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | UNKNOWN |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000017 |
| Tank Status: | Not reported |
| Capacity: | 2115288 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | JET FUEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000018 |
| Tank Status: | Not reported |
| Capacity: | 2104746 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | JET FUEL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000019
Tank Status: Not reported
Capacity: 2113314
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: JET FUEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000020
Tank Status: Not reported
Capacity: 2108988
Active Date: Not reported
Tank Use: CHIMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000021
Tank Status: Not reported
Capacity: 1163778
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000022
Tank Status: Not reported
Capacity: 1163778
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000023
Tank Status: Not reported
Capacity: 1160964
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: U S NAVY, FUEL DEPT., NSCO
Address: POINT MOLATE SITE
City: RICHMOND
Status: Not reported
Comp Number: 59389
Number: Not reported
Board Of Equalization: 44-002492
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 07-000-059389-000024
Tank Status: Not reported
Capacity: 1163148
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000025 |
| Tank Status: | Not reported |
| Capacity: | 1 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | UNKNOWN |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000026 |
| Tank Status: | Not reported |
| Capacity: | 581994 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |
| Content: | UNKNOWN |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | U S NAVY, FUEL DEPT., NSCO |
| Address: | POINT MOLATE SITE |
| City: | RICHMOND |
| Status: | Not reported |
| Comp Number: | 59389 |
| Number: | Not reported |
| Board Of Equalization: | 44-002492 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 07-000-059389-000027 |
| Tank Status: | Not reported |
| Capacity: | 100800 |
| Active Date: | Not reported |
| Tank Use: | CHEMICAL |
| STG: | PRODUCT |

**U S NAVY, FUEL DEPT., NSCO (Continued)** **S101580885**

Content: UNKNOWN
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 07000965
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4152340211
Mail To: Not reported
Mailing Address: WESTERN DR
Mailing Address 2: Not reported
Mailing City,St,Zip: RICHMOND 94801
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

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**M40** **PACIFIC BELL** **RCRA-SQG** **1000251253**
**West** **POINT MOLATE** **CAT080020910**
**< 1/8** **RICHMOND, CA 94804**
**0.062 mi.**
**329 ft.** **Site 3 of 3 in cluster M**

**Relative:** **Lower**

**Actual:** **0 ft.**

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: POINT MOLATE
RICHMOND, CA 94804
EPA ID: CAT080020910
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported

**PACIFIC BELL (Continued)** **1000251253**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/19/1981
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

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**41** **BULK FUEL STORAGE FACILITY** **FUDS** **1024903717**
**SE** **N/A**
**< 1/8** **POINT MOLATE, CA**
**0.066 mi.**
**348 ft.**

**Relative:** FUDS:
**Lower**
**Actual:** EPA Region: 9
**193 ft.** Installation ID: CA99799F570200
Congressional District Number: 11
Facility Name: BULK FUEL STORAGE FACILITY
FUDS Number: J09CA0761
City: POINT MOLATE
State: CA

**BULK FUEL STORAGE FACILITY (Continued)** **1024903717**

| | |
|---|---|
| County: | CONTRA COSTA COUNTY |
| Telephone: | 916-557-7461 |
| USACE Division: | South Pacific Division (SPD) |
| USACE District: | Sacramento District (SPK) |
| Status: | Properties without projects |
| Current Owner: | Other |
| X Coord: | -13626216.881059799 |
| Y Coord: | 4571110.1245909398 |
| Latitude: | 37.941111110000001 |
| Longitude: | -122.40638889 |

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**42**
**SSE**
**1/8-1/4**
**0.163 mi.**
**863 ft.**

**CALTRANS-RICHMOND/SAN \\RAFAEL** **CA FID UST** **S101580982**
**TOLL PLAZA I-580** **N/A**
**RICHMOND, CA 94801**

**Relative:**
**Higher**

**Actual:**
**233 ft.**

CA FID UST:

| | |
|---|---|
| Facility ID: | 07001123 |
| Regulated By: | UTNKI |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 5104640876 |
| Mail To: | Not reported |
| Mailing Address: | PO BOX |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | RICHMOND 94801 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Inactive |

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**43**
**NNW**
**1/8-1/4**
**0.221 mi.**
**1167 ft.**

**NAVAL SUPPLY CENTER PT MOLATE SITE** **SEMS** **1015730571**
**WESTERN DR OFF SR 17** **RCRA-SQG** **CA0170090021**
**RICHMOND, CA 94801**

**Relative:**
**Lower**

**Actual:**
**182 ft.**

SEMS:

| | |
|---|---|
| Site ID: | 0903452 |
| EPA ID: | CA0170090021 |
| Cong District: | 07 |
| FIPS Code: | 06013 |
| Latitude: | Not reported |
| Longitude: | Not reported |
| FF: | Y |
| NPL: | Not on the NPL |
| Non NPL Status: | HRS Start Needed |

SEMS Detail:

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0903452 |
| EPA ID: | CA0170090021 |

**NAVAL SUPPLY CENTER PT MOLATE SITE (Continued)** **1015730571**

| | |
|---|---|
| Site Name: | NAVAL SUPPLY CENTER PT MOLATE SITE |
| NPL: | N |
| FF: | Y |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 2 |
| Start Date: | Not reported |
| Finish Date: | 8/27/1993 4:00:00 AM |
| Qual: | L |
| Current Action Lead: | Fed Fac |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0903452 |
| EPA ID: | CA0170090021 |
| Site Name: | NAVAL SUPPLY CENTER PT MOLATE SITE |
| NPL: | N |
| FF: | Y |
| OU: | 00 |
| Action Code: | SI |
| Action Name: | SI |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1/6/1992 5:00:00 AM |
| Qual: | H |
| Current Action Lead: | Fed Fac |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0903452 |
| EPA ID: | CA0170090021 |
| Site Name: | NAVAL SUPPLY CENTER PT MOLATE SITE |
| NPL: | N |
| FF: | Y |
| OU: | 00 |
| Action Code: | PA |
| Action Name: | PA |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 1/6/1992 5:00:00 AM |
| Qual: | H |
| Current Action Lead: | Fed Fac |

| | |
|---|---|
| Region: | 09 |
| Site ID: | 0903452 |
| EPA ID: | CA0170090021 |
| Site Name: | NAVAL SUPPLY CENTER PT MOLATE SITE |
| NPL: | N |
| FF: | Y |
| OU: | 00 |
| Action Code: | DS |
| Action Name: | DISCVRY |
| SEQ: | 1 |
| Start Date: | 1988-05-01 04:00:00 |
| Finish Date: | 5/1/1988 4:00:00 AM |
| Qual: | Not reported |
| Current Action Lead: | Fed Fac |

**NAVAL SUPPLY CENTER PT MOLATE SITE (Continued)** **1015730571**

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: USNAVY OAKLAND NAVAL SUPPLY CTR PT MOLAT
Facility address: END WESTERN DRIVE OFF SR 17
RICHMOND, CA 94801
EPA ID: CA0170090021
Mailing address: PWC SFB/CODE FIRST HUNDREDE2/P
OAKLAND, CA 94623
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Federal
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: USN PUBLIC WORKS CTR-SAN FRANCISCO BAY
Owner/operator address: P O BOX 24003
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-466-2891
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: USN PUBLIC WORKS CTR-SAN FRANCISCO BAY
Owner/operator address: P O BOX 24003
OAKLAND, CA 94623
Owner/operator country: Not reported
Owner/operator telephone: 415-466-2891
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No

**NAVAL SUPPLY CENTER PT MOLATE SITE (Continued)** **1015730571**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: USNAVY OAKLAND NAVAL SUPPLY CTR PT MOLAT
Classification: Small Quantity Generator

Date form received by agency: 03/30/1992
Site name: NAVAL SUPPLY CTR-OAKLAND-PT MO
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: USNAVY OAKLAND NAVAL SUPPLY CTR PT MOLAT
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 03/01/1990
Date achieved compliance: 03/19/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/13/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/01/1990
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 03/19/1990
Evaluation lead agency: State

Evaluation date: 03/01/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

**N44 NW 1/4-1/2 0.309 mi. 1633 ft.** **PT SAN PABLO YACHT HARBOUR**
**1900 WESTERN DR**
**RICHMOND, CA 94807**
**Site 1 of 3 in cluster N**

**LUST** **S104162568**
**HIST CORTESE** **N/A**
**CONTRA COSTA CO. SITE LIST**
**CERS**

**Relative: Lower**

**Actual: 22 ft.**

LUST:

| | |
|---|---|
| Name: | PT SAN PABLO YACHT HARBOUR |
| Address: | 1900 WESTERN DR |
| City,State,Zip: | RICHMOND, CA 94807 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601300226 |
| Global Id: | T0601300226 |
| Latitude: | 37.96224 |
| Longitude: | -122.418848 |
| Status: | Completed - Case Closed |
| Status Date: | 11/02/1999 |
| Case Worker: | UUU |
| RB Case Number: | 07-0244 |
| Local Agency: | CONTRA COSTA COUNTY |
| File Location: | Not reported |
| Local Case Number: | 11506 |
| Potential Media Affect: | Other Groundwater (uses other than drinking water) |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0601300226 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | Regional Water Board |
| Organization Name: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Address: | 1515 CLAY ST SUITE 1400 |
| City: | OAKLAND |
| Email: | Not reported |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0601300226 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | SUE LOYD |
| Organization Name: | CONTRA COSTA COUNTY |
| Address: | 4333 PACHECO BLVD. |
| City: | MARTINEZ |
| Email: | sloyd@hsd.co.contra-costa.ca.us |
| Phone Number: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0601300226 |
| Action Type: | Other |
| Date: | 12/22/1998 |
| Action: | Leak Stopped |

| | |
|---|---|
| Global Id: | T0601300226 |
| Action Type: | Other |
| Date: | 08/20/1987 |
| Action: | Leak Reported |

| | |
|---|---|
| Global Id: | T0601300226 |
| Action Type: | Other |

**PT SAN PABLO YACHT HARBOUR (Continued)** **S104162568**

Date: 06/26/1987
Action: Leak Discovery

LUST:
Global Id: T0601300226
Status: Completed - Case Closed
Status Date: 11/02/1999

Global Id: T0601300226
Status: Open - Case Begin Date
Status Date: 06/26/1987

Global Id: T0601300226
Status: Open - Site Assessment
Status Date: 07/12/1994

HIST CORTESE:
edr_fname: PT SAN PABLO YACHT HARBO
edr_fadd1: 1900 WESTERN
City,State,Zip: RICHMOND, CA
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0770

edr_fname: POINT SAN PABLO YACHT HAR
edr_fadd1: 1900 WESTERN
City,State,Zip: RICHMOND, CA
Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 07-0244

CONTRA COSTA CO. SITE LIST:
Name: POINT SAN PABLO YACHT HARBOR
Address: 1900 WESTERN DR
City: RICHMOND
Facility ID: FA0031610
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 711506

Name: POINT SAN PABLO YACHT HARBOR
Address: 1900 WESTERN DR
City: RICHMOND
Facility ID: FA0031610
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG GENERAL
Region: CONTRA COSTA
Cupa Number: 711506

Name: POINT SAN PABLO YACHT HARBOR

**PT SAN PABLO YACHT HARBOUR (Continued)** **S104162568**

Address: 1900 WESTERN DR
City: RICHMOND
Facility ID: FA0031610
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 711506

CERS:
Name: PT SAN PABLO YACHT HARBOUR
Address: 1900 WESTERN DR
City,State,Zip: RICHMOND, CA 94807
Site ID: 247825
CERS ID: T0601300226
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: SUE LOYD - CONTRA COSTA COUNTY
Entity Title: Not reported
Affiliation Address: 4333 PACHECO BLVD.
Affiliation City: MARTINEZ
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

---

**N45** **PT SAN PABLO YACHT HARBOUR** **LUST** **S106610929**
**NW** **1900 WESTERN DR** **N/A**
**1/4-1/2** **RICHMOND, CA 94807**
**0.309 mi.**
**1633 ft.** **Site 2 of 3 in cluster N**

**Relative:**
**Lower**

**Actual:**
**22 ft.**

LUST REG 2:
Region: 2
Facility Id: 07-0244
Facility Status: Case Closed
Case Number: 11506
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 7/12/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported

**PT SAN PABLO YACHT HARBOUR (Continued)** **S106610929**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

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**N46**
**NW**
**1/4-1/2**
**0.309 mi.**
**1633 ft.**

**PT SAN PABLO YACHT HARBOR** **LUST** **S106610928**
**1900 WESTERN DR** **N/A**
**POINT RICHMOND, CA 94801**

**Site 3 of 3 in cluster N**

**Relative:**
**Lower**

**Actual:**
**22 ft.**

LUST REG 2:
Region: 2
Facility Id: 07-0770
Facility Status: Leak being confirmed
Case Number: 11506
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 10/15/1999
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

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**47**
**South**
**1/4-1/2**
**0.335 mi.**
**1769 ft.**

**BULK FUEL STORAGE FAC** **ENVIROSTOR** **S107735969**
**N/A**
**POINT MOLATE, CA**

**Relative:**
**Lower**

**Actual:**
**69 ft.**

ENVIROSTOR:
Name: BULK FUEL STORAGE FAC
Address: Not reported
City,State,Zip: POINT MOLATE, CA
Facility ID: 80000376
Status: Refer: RWQCB
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Charles Ridenour
Division Branch: Cleanup Sacramento
Assembly: 15
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA

**BULK FUEL STORAGE FAC (Continued)** **S107735969**

| | |
|---|---|
| Latitude: | 37.93555 |
| Longitude: | -122.4119 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | CA99799F570200 |
| Alias Type: | Federal Facility ID |
| Alias Name: | J09CA0761 |
| Alias Type: | INPR |
| Alias Name: | 80000376 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Records Research Report (RRR) |
| Completed Date: | 11/29/2005 |
| Comments: | DTSC agreed No Defense Action was Indicated for this site. |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

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**48** **CALTRANS-RICHMOND-SAN RAFAEL BRIDGE** **ENVIROSTOR** **S106568345**
**SSE** **TOLL BRIDGE** **VCP** **N/A**
**1/2-1** **RICHMOND, CA 94801**
**0.706 mi.**
**3726 ft.**

**Relative:**
**Lower**

**Actual:**
**42 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | CALTRANS-RICHMOND-SAN RAFAEL BRIDGE |
| Address: | TOLL BRIDGE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility ID: | 48160004 |
| Status: | No Further Action |
| Status Date: | 02/01/2002 |
| Site Code: | 200981 |
| Site Type: | Voluntary Cleanup |
| Site Type Detailed: | Voluntary Cleanup |
| Acres: | 1.8 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Not reported |
| Supervisor: | Denise Tsuji |
| Division Branch: | Cleanup Berkeley |
| Assembly: | 15 |
| Senate: | 09 |
| Special Program: | Voluntary Cleanup Program |
| Restricted Use: | NO |

**CALTRANS-RICHMOND-SAN RAFAEL BRIDGE (Continued)** **S106568345**

Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.9325
Longitude: -122.4016
APN: NONE SPECIFIED
Past Use: HIGHWAY RIGHT-OF-WAY
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: CALTRANS-RICHMOND-SAN RAFAEL BRIDGE
Alias Type: Alternate Name
Alias Name: 110033605445
Alias Type: EPA (FRS #)
Alias Name: 200981
Alias Type: Project Code (Site Code)
Alias Name: 48160004
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/01/1998
Comments: Signed VCA. As part of Caltrans' retrofit project, a Soil Management Plan, a Transportation Plan and a Health & Safety Plan will be prepared to assure proper handling, stockpiling, transport and disposal of lead and petroleum hydrocarbon impacted soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 02/28/2002
Comments: Requirements outlined in the VCA completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/21/1999
Comments: Amended VCA to allow continued VCA activities under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 02/28/2002
Comments: Approved Soil Management Plan and Transportation Plan.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

**CALTRANS-RICHMOND-SAN RAFAEL BRIDGE (Continued)** **S106568345**

VCP:

| | |
|---|---|
| Name: | CALTRANS-RICHMOND-SAN RAFAEL BRIDGE |
| Address: | TOLL BRIDGE |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility ID: | 48160004 |
| Site Type: | Voluntary Cleanup |
| Site Type Detail: | Voluntary Cleanup |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 1.8 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Not reported |
| Supervisor: | Denise Tsuji |
| Division Branch: | Cleanup Berkeley |
| Site Code: | 200981 |
| Assembly: | 15 |
| Senate: | 09 |
| Special Programs Code: | Voluntary Cleanup Program |
| Status: | No Further Action |
| Status Date: | 02/01/2002 |
| Restricted Use: | NO |
| Funding: | Responsible Party |
| Lat/Long: | 37.9325 / -122.4016 |
| APN: | NONE SPECIFIED |
| Past Use: | HIGHWAY RIGHT-OF-WAY |
| Potential COC: | 30013 |
| Confirmed COC: | 30013 |
| Potential Description: | SOIL |
| Alias Name: | CALTRANS-RICHMOND-SAN RAFAEL BRIDGE |
| Alias Type: | Alternate Name |
| Alias Name: | 110033605445 |
| Alias Type: | EPA (FRS #) |
| Alias Name: | 200981 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 48160004 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Voluntary Cleanup Agreement |
| Completed Date: | 09/01/1998 |
| Comments: | Signed VCA. As part of Caltrans' retrofit project, a Soil Management Plan, a Transportation Plan and a Health & Safety Plan will be prepared to assure proper handling, stockpiling, transport and disposal of lead and petroleum hydrocarbon impacted soils. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | *Voluntary Cleanup Agreement Completion |
| Completed Date: | 02/28/2002 |
| Comments: | Requirements outlined in the VCA completed. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**CALTRANS-RICHMOND-SAN RAFAEL BRIDGE (Continued)** **S106568345**

| | |
|---|---|
| Completed Document Type: | Voluntary Cleanup Agreement |
| Completed Date: | 01/21/1999 |
| Comments: | Amended VCA to allow continued VCA activities under Chapter 6.5 of the Health and Safety Code. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Voluntary Cleanup Consultation |
| Completed Date: | 02/28/2002 |
| Comments: | Approved Soil Management Plan and Transportation Plan. |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

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**49**
**ESE**
**1/2-1**
**0.744 mi.**
**3926 ft.**

**Relative:**
**Lower**

**Actual:**
**22 ft.**

**CHEVRON USA INC RICHMOND REFINERY** **1001205644**
**841 CHEVRON WAY** **N/A**
**RICHMOND, CA 94801**

**ENVIROSTOR**
**CPS-SLIC**
**WMUDS/SWAT**
**CERS HAZ WASTE**
**CERS TANKS**
**CHMIRS**
**LDS**
**Cortese**
**EMI**
**ENF**
**HAZNET**
**ICE**
**HWP**
**NPDES**
**CONTRA COSTA CO. SITE LIST**
**WDS**
**CIWQS**
**CERS**

ENVIROSTOR:

| | |
|---|---|
| Name: | CHEVRON PRODUCTS CO |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility ID: | 80001593 |
| Status: | Refer: RWQCB |
| Status Date: | 01/01/2008 |
| Site Code: | 200273 |
| Site Type: | Corrective Action |
| Site Type Detailed: | Corrective Action |
| Acres: | 0 |
| NPL: | NO |
| Regulatory Agencies: | RWQCB 2 - San Francisco Bay |
| Lead Agency: | RWQCB 2 - San Francisco Bay |
| Program Manager: | Not reported |
| Supervisor: | Referred - Not Assigned |
| Division Branch: | Cleanup Berkeley |
| Assembly: | 15 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.93834
Longitude: -122.3842
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD009114919
Alias Type: EPA Identification Number
Alias Name: 110020506460
Alias Type: EPA (FRS #)
Alias Name: 200273
Alias Type: Project Code (Site Code)
Alias Name: 07280129
Alias Type: Envirostor ID Number
Alias Name: 80001593
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 02/24/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 11/29/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 06/18/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CA Process is Terminated
Completed Date: 06/18/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 08/19/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 09/23/1997

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 01/31/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 12/28/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 12/28/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 01/14/2016
Comments: Water Board certified Remedy Construction Complete on Jan. 14, 2016

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/23/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 05/01/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 01/01/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 06/16/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/01/1980
Comments: Not reported

Completed Area Name: PROJECT WIDE

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/17/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 11/29/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/11/2006
Comments: Hazardous Waste Facility Permit. Corrective Action Provisions in Part VI

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CPS-SLIC:
Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Region: STATE
**Facility Status:** **Open - Remediation**
Status Date: 03/01/2008
Global Id: SL18236654
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.9378177298504
Longitude: -122.390956878662
Case Type: Cleanup Program Site
Case Worker: ADF
Local Agency: Not reported
RB Case Number: 07S0151
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil, Surface water
Potential Contaminants of Concern: Benzene, Chlordane, Other Insecticides / Pesticide / Fumigants / Herbicides, Arsenic, Chromium, Lead, Mercury (elemental), Nickel, Other Metal, Diesel, MTBE / TBA / Other Fuel Oxygenates, Gasoline, Polynuclear aromatic hydrocarbons (PAHs)
Site History: Chevron Products Company, a subsidiary of Chevron U.S.A. Inc. owns and operates the Richmond Refinery. The refinery, built in 1902, produces a broad range of fuels, lubricants, asphalt and petrochemicals. The 2,900-acre refinery is located along the southern shore of San Pablo Bay in Contra Costa County. The City of Richmond lies to the east of the facility. To the east and within one mile

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

from the facility is industrial, residential, commercial and agricultural land use. Certain wastes generated from the refinery's processes have historically been deposited at various locations within the refinery. The refinery has multiple waste disposal units and release areas; there is no one single plume or source area. Each sector has unique hydrogeology and varying degrees of environmental concern. Chevron has subdivided the facility into nine geographic sectors, plus the former Pollard Pond. The sectors are as follows: Landfarms/Landfills Sector Castro Sector Main Yard Sector North Yard Sector Bayside Sector - North Bayside Sector - South Alkane Sector Effluent Sector Reclamation Sector Former Pollard Pond The current waste discharge requirements can be found in Order No. 00-043, which replaced orders established during 1990 to 1993. See ECM and Fortis for more documents. According to Order No. 00-043: "Chevron has implemented a corrective action program described in the report "Groundwater Protection System (GPS) Engineering Report" dated December 20, 1991 for the interception of contaminated groundwater from the facility prior to entering San Pablo Bay. The GPS is intended to be a hydraulic control measure composed of a varying combination of slurry wall, extraction trench and/or extraction wells. Groundwater extraction through the trenches and/or wells establishes and maintains a contiguous capture zone which prevents migration of potentially contaminated A-Zone groundwater past the GPS alignment. The slurry wall was installed where thick and/or highly permeable intervals of A-Zone fill soils are encountered. A low permeability Bay Mud "floor" inhibits transport of A-Zone contaminants to the underlying C-Zone in the "Flats Zone" of the Refinery. The Board, in Waste Discharge Requirements Order 93-109, determined that the GPS is a satisfactory corrective action measure for the containment and removal of contaminated groundwater along the perimeter of the facility adjacent to San Pablo Bay. In addition, Chevron will remediate any contamination at discrete sites within the facility according to a Free-Phase Hydrocarbon Recovery Plan and a Soils Management Plan, both of which are to be submitted pursuant to Provisions C.5 & C.7 of this Order, thereby maximizing the efficiency of the GPS as a corrective action. Approximately 24,700 linear feet of extraction trench, 15,185 linear feet of barrier wall, 200 extraction locations, and one groundwater treatment plant have been installed and are operating as of the first quarter of 2000. The extracted groundwater is routed to the refinerys effluent treatment system and discharged in accordance with existing NPDES permit requirements."

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:
Region: 2
Facility ID: 07S0151
Facility Status: Not reported
Date Closed: Not reported
Local Case #: Not reported
How Discovered: RBD
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

WMUDS/SWAT:

| | |
|---|---|
| Edit Date: | Not reported |
| Complexity: | Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells. |
| Primary Waste: | PROCES |
| Primary Waste Type: | Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards. |
| Secondary Waste: | Process Waste (Waste produced as part of the industrial/manufacturing process) |
| Secondary Waste Type: | D |
| Base Meridian: | Not reported |
| NPID: | Not reported |
| Tonnage: | 0 |
| Regional Board ID: | Not reported |
| Municipal Solid Waste: | False |
| Superorder: | False |
| Open To Public: | False |
| Waste List: | False |
| Agency Type: | Private |
| Agency Name: | CHEVRON PRODUCTS COMPANY |
| Agency Department: | Not reported |
| Agency Address: | PO BOX 1272 |
| Agency City,St,Zip: | RICHMOND CA 948020272 |
| Agency Contact: | MANAGER, ENVIRON & SAFETY DIV. |
| Agency Telephone: | 5102321400 |
| Land Owner Name: | CHEVRON |
| Land Owner Address: | Not reported |
| Land Owner City,St,Zip: | CA |
| Land Owner Contact: | Not reported |
| Land Owner Phone: | Not reported |
| Region: | 2 |
| Facility Type: | Solid Waste Site-Class I - A solid waste facility at which hazardous waste may be treated or stored. |
| Facility Description: | Not reported |
| Facility Telephone: | Not reported |
| SWAT Facility Name: | Not reported |
| Primary SIC: | 2911 |
| Secondary SIC: | 2869 |
| Comments: | Not reported |
| Last Facility Editors: | Not reported |
| Waste Discharge System: | True |
| Solid Waste Assessment Test Program: | True |
| Toxic Pits Cleanup Act Program: | False |
| Resource Conservation Recovery Act: | False |
| Department of Defence: | False |
| Solid Waste Assessment Test Program: | CHEVRON USA |
| Threat to Water Quality: | Moderate Threat to Water Quality. A violation could have a major |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.

Sub Chapter 15: True
Regional Board Project Officer: EAC
Number of WMUDS at Facility: 3
Section Range: Not reported
RCRA Facility: No
Waste Discharge Requirements: A
Self-Monitoring Rept. Frequency: Monthly Submittal
Waste Discharge System ID: 2 071044002
Solid Waste Information ID: Not reported

CERS HAZ WASTE:
Site ID: 104873
CERS ID: 10010575
CERS Description: Hazardous Chemical Management

Violations:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 09/30/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections |
| Violation Description: | Haz Waste Generator Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 11/20/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-13-2018 |
| Citation: | 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665 |
| Violation Description: | Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-30-2006
Citation: 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-03-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/30/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-22-2017
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 06/22/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Training - General

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 05-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-13-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-22-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
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Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 104873
Facility Name: CHEVRON RICHMOND REFINERY
Env Int Type Code: CPS
Program ID: SL18236654
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.937818
Longitude: -122.390956

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Shawn Lee
Entity Title: Not reported
Affiliation Address: PO BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802-0272
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Contra Costa County Health Services Department |
| Entity Title: | Not reported |
| Affiliation Address: | 4585 Pacheco BlvdSuite 100 |
| Affiliation City: | Martinez |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94553 |
| Affiliation Phone: | (925) 335-3200 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Nicole Mendoza |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | CHEVRON PRODUCTS CO |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-3000 |
| | |
| Affiliation Type Desc: | UST Tank Operator |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | (925) 842-1000 |
| | |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Address: | 1515 CLAY ST., SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-1400 |
| | |
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Chevron Products Company |
| Entity Title: | Not reported |
| Affiliation Address: | 6001 Bollinger Canyon Road |
| Affiliation City: | San Ramon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94583 |
| Affiliation Phone: | (925) 842-1000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
CERS ID: 10010575
CERS Description: Hazardous Waste Generator

Violations:

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 09/30/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/20/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-13-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| | capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-30-2006 |
| Citation: | 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp |
| Violation Description: | Cal/OSHA Violation |
| Violation Notes: | Not reported |
| Violation Division: | Cal/OSHA |
| Violation Program: | OSHA |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-03-2015 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/30/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-22-2017 |
| Citation: | 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e) |
| Violation Description: | Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA. |
| Violation Notes: | Returned to compliance on 06/22/2017. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Training - General |
| Violation Notes: | Returned to compliance on 12/20/2013. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple |
| Violation Description: | APSA Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | APSA |
| Violation Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-15-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | APSA |
| Eval Source: | CERS |

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|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-15-2016 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

Enforcement Action:

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 05-19-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-13-2018 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-22-2017 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-27-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 104873
Facility Name: CHEVRON RICHMOND REFINERY
Env Int Type Code: CPS
Program ID: SL18236654
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.937818
Longitude: -122.390956

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Shawn Lee
Entity Title: Not reported
Affiliation Address: PO BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802-0272
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802
Affiliation Phone: (510) 242-3933

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 335-3200

Affiliation Type Desc: Document Preparer
Entity Name: Nicole Mendoza

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: CHEVRON PRODUCTS CO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 242-3000

Affiliation Type Desc: UST Tank Operator
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802
Affiliation Phone: (510) 242-3933

Affiliation Type Desc: Legal Owner
Entity Name: CHEVRON RICHMOND REFINERY
Entity Title: Not reported
Affiliation Address: P.O. BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802-0272
Affiliation Phone: (925) 842-1000

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST., SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Permit Applicant
Entity Name: Shawn Lee
Entity Title: Manager, Health Environmental & Safety
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 242-1400

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

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|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Chevron Products Company |
| Entity Title: | Not reported |
| Affiliation Address: | 6001 Bollinger Canyon Road |
| Affiliation City: | San Ramon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94583 |
| Affiliation Phone: | (925) 842-1000 |

| | |
|---|---|
| Site ID: | 104873 |
| CERS ID: | 10010575 |
| CERS Description: | Hazardous Waste Onsite Treatment |

Violations:

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | Un-Specified |
| Violation Description: | UST Program - Administration/Documentation - For use of Local Ordinance only |
| Violation Notes: | Returned to compliance on 10/23/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple |
| Violation Description: | APSA Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 12/20/2013. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | APSA |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple |
| Violation Description: | UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section. |
| Violation Notes: | Returned to compliance on 09/30/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections |
| Violation Description: | Haz Waste Generator Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 11/20/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-13-2018 |
| Citation: | 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665 |
| Violation Description: | Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-20-2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-30-2006
Citation: 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-03-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Notes: Returned to compliance on 11/30/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-22-2017
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 06/22/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Training - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 12/20/2013. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 05-19-2016 |
| Citation: | Un-Specified |
| Violation Description: | UST Program - Administration/Documentation - For use of Local Ordinance only |
| Violation Notes: | Returned to compliance on 06/16/2016. 48 hr notification for testing |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple |
| Violation Description: | UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section. |
| Violation Notes: | Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637 |
| Violation Description: | Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester. |
| Violation Notes: | Returned to compliance on 07/19/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Evaluation:

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-19-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-24-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-13-2012 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HWLQG |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-19-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-21-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | CalARP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-23-2014 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-23-2014 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-03-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | APSA |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-03-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-21-2013 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-28-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | CalARP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-24-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | APSA |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-27-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enforcement Action:

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 05-19-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-13-2018 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-22-2017 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-27-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 11-20-2013 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 11-21-2013 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 11-21-2013 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 104873 |
| Facility Name: | CHEVRON RICHMOND REFINERY |
| Env Int Type Code: | CPS |
| Program ID: | SL18236654 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Unknown |
| Latitude: | 37.937818 |
| Longitude: | -122.390956 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Shawn Lee |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Entity Title: | Not reported |
| Affiliation Address: | PO BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Contra Costa County Health Services Department |
| Entity Title: | Not reported |
| Affiliation Address: | 4585 Pacheco BlvdSuite 100 |
| Affiliation City: | Martinez |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94553 |
| Affiliation Phone: | (925) 335-3200 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Nicole Mendoza |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | CHEVRON PRODUCTS CO |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-3000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Operator |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | (925) 842-1000 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 CLAY ST., SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-1400 |

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: CHEVRON RICHMOND REFINERY
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Chevron Products Company
Entity Title: Not reported
Affiliation Address: 6001 Bollinger Canyon Road
Affiliation City: San Ramon
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-1000

Site ID: 104873
CERS ID: 10010575
CERS Description: RCRA LQ HW Generator

Violations:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| | "comment" section. |
| Violation Notes: | Returned to compliance on 09/30/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections |
| Violation Description: | Haz Waste Generator Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 11/20/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-13-2018 |
| Citation: | 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665 |
| Violation Description: | Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-30-2006 |
| Citation: | 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp |
| Violation Description: | Cal/OSHA Violation |
| Violation Notes: | Not reported |
| Violation Division: | Cal/OSHA |
| Violation Program: | OSHA |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-03-2015 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/30/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-22-2017 |
| Citation: | 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e) |
| Violation Description: | Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA. |
| Violation Notes: | Returned to compliance on 06/22/2017. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Training - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 05-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-13-2018 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-22-2017 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-27-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 104873
Facility Name: CHEVRON RICHMOND REFINERY
Env Int Type Code: CPS
Program ID: SL18236654
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.937818
Longitude: -122.390956

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Shawn Lee
Entity Title: Not reported
Affiliation Address: PO BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Contra Costa County Health Services Department |
| Entity Title: | Not reported |
| Affiliation Address: | 4585 Pacheco BlvdSuite 100 |
| Affiliation City: | Martinez |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94553 |
| Affiliation Phone: | (925) 335-3200 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Nicole Mendoza |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | CHEVRON PRODUCTS CO |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-3000 |
| | |
| Affiliation Type Desc: | UST Tank Operator |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. BOX 1272 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | (925) 842-1000 |
| | |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 CLAY ST., SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-1400 |
| | |
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Entity Name: | Chevron Products Company |
| Entity Title: | Not reported |
| Affiliation Address: | 6001 Bollinger Canyon Road |
| Affiliation City: | San Ramon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94583 |
| Affiliation Phone: | (925) 842-1000 |

CERS TANKS:

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Site ID: | 104873 |
| CERS ID: | 10010575 |
| CERS Description: | Aboveground Petroleum Storage |

Violations:

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | Un-Specified |
| Violation Description: | UST Program - Administration/Documentation - For use of Local Ordinance only |
| Violation Notes: | Returned to compliance on 10/23/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple |
| Violation Description: | APSA Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 12/20/2013. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | APSA |
| Violation Source: | CERS |

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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple |
| Violation Description: | UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section. |
| Violation Notes: | Returned to compliance on 09/30/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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| Citation: | HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections |
| Violation Description: | Haz Waste Generator Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 11/20/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HW |
| Violation Source: | CERS |
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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-13-2018 |
| Citation: | 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665 |
| Violation Description: | Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-30-2006
Citation: 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp
Violation Description: Cal/OSHA Violation
Violation Notes: Not reported
Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-03-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/30/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-22-2017
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 06/22/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Training - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 05-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-13-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-22-2017 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-27-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 11-21-2013 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

Coordinates:

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|---|---|
| Site ID: | 104873 |
| Facility Name: | CHEVRON RICHMOND REFINERY |
| Env Int Type Code: | CPS |
| Program ID: | SL18236654 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Unknown |
| Latitude: | 37.937818 |
| Longitude: | -122.390956 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Shawn Lee |
| Entity Title: | Not reported |
| Affiliation Address: | PO BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Contra Costa County Health Services Department |
| Entity Title: | Not reported |
| Affiliation Address: | 4585 Pacheco BlvdSuite 100 |
| Affiliation City: | Martinez |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94553 |
| Affiliation Phone: | (925) 335-3200 |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Nicole Mendoza |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | CHEVRON PRODUCTS CO |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-3000 |

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Operator |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | (925) 842-1000 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 CLAY ST., SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-1400 |
| | |
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Chevron Products Company |
| Entity Title: | Not reported |
| Affiliation Address: | 6001 Bollinger Canyon Road |
| Affiliation City: | San Ramon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94583 |
| Affiliation Phone: | (925) 842-1000 |
| | |
| Name: | CHEVRON RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
CERS ID: 10010575
CERS Description: Underground Storage Tank

Violations:

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 09/30/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/20/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-13-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| | capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-30-2006 |
| Citation: | 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp |
| Violation Description: | Cal/OSHA Violation |
| Violation Notes: | Not reported |
| Violation Division: | Cal/OSHA |
| Violation Program: | OSHA |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-03-2015 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/30/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-22-2017 |
| Citation: | 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e) |
| Violation Description: | Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA. |
| Violation Notes: | Returned to compliance on 06/22/2017. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Training - General |
| Violation Notes: | Returned to compliance on 12/20/2013. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple |
| Violation Description: | APSA Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | APSA |
| Violation Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 05-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-13-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-22-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 06-27-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 10-23-2014 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Site Address: | 841 CHEVRON WAY |
| Site City: | RICHMOND |
| Site Zip: | 94802 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 104873
Facility Name: CHEVRON RICHMOND REFINERY
Env Int Type Code: CPS
Program ID: SL18236654
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.937818
Longitude: -122.390956

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Shawn Lee
Entity Title: Not reported
Affiliation Address: PO BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802-0272
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802
Affiliation Phone: (510) 242-3933

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 335-3200

Affiliation Type Desc: Document Preparer
Entity Name: Nicole Mendoza

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: CHEVRON PRODUCTS CO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 242-3000

Affiliation Type Desc: UST Tank Operator
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802
Affiliation Phone: (510) 242-3933

Affiliation Type Desc: Legal Owner
Entity Name: CHEVRON RICHMOND REFINERY
Entity Title: Not reported
Affiliation Address: P.O. BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802-0272
Affiliation Phone: (925) 842-1000

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST., SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Permit Applicant
Entity Name: Shawn Lee
Entity Title: Manager, Health Environmental & Safety
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 242-1400

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Chevron Products Company |
| Entity Title: | Not reported |
| Affiliation Address: | 6001 Bollinger Canyon Road |
| Affiliation City: | San Ramon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94583 |
| Affiliation Phone: | (925) 842-1000 |

CHMIRS:

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-4250 |
| OES notification: | 08/05/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 8/5/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Machine failure causing possible RQ from flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 0-5713 |
| OES notification: | 12/05/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 12/5/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per R/P potential release only, reporting in the event it goes over reportable quantity. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2536 |
| OES notification: | 05/01/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron, Richmond |
| Incident Date: | 5/1/200112:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO2SO2 |
| Unknown: | unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A planned shut down had occurred. The release was caused by start up of the flare. The amount of the release has yet to be determined. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 08-6573 |
| OES notification: | 09/09/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | S.F. Bay |
| Spill Site: | Refinery |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 0830 |
| Year: | 2008 |
| Agency: | XXX |
| Incident Date: | 9/9/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | S.F. Bay |
| E Date: | Not reported |
| Substance: | Hydraulic Oil |
| Quantity Released: | 1 Teaspoon |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Quoting the NRC report, "Hydraulic Oil has spilled into the San Francisco Bay from a failed hydraulic line on the tanker vessel Colorado Voyager." Under REMEDIAL ACTIONS the report states that booms have been applied. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-1906 |
| OES notification: | 04/10/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 4/10/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Reporting that they may possibly exceed RQs for hydrogen and sulfur compounds. Unknown cause, still under investigation. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-5799 |
| OES notification: | 11/08/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 11/8/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They believe the substance released was mainly hydrogen, they are testing for the substance and to determine if the reportable quantity has been reached. Flaring was caused by an operational upset in the #5 catalyst reformer unit. |
| Name: | Not reported |
| Address: | 841 CHEVRON |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-4524 |
| OES notification: | 07/28/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron Oil |
| Incident Date: | 7/27/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | POTENTIAL RELEASE-Instrumination problem at a sulphur train. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-1263 |
| OES notification: | 03/01/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/1/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | sulphur dioxidenitrous oxide |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | R/P is calling to report that they may go over the RQ on both substances. They have to steam out a line and that may cause release over their RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3571 |
| OES notification: | 06/30/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/30/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | KL71 has an upset, is down for repairs. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 10-6318 |
| OES notification: | 10/20/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Oz. |
| Other: | Not reported |
| Date/Time: | 1352 |
| Year: | 2010 |
| Agency: | NRC |
| Incident Date: | 10/20/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San Francisco Bay |
| E Date: | Not reported |
| Substance: | Cable dressing oil |
| Quantity Released: | 1 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per NRC report and caller, a bucket cable dressing was knocked at the facility and material sloshed out and went into the water. Material dissipated naturally. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-1477 |
| OES notification: | 03/11/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/11/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | During reflaring some vapors of NO and SO2 were released, no estimation of amount at this time, will call back with an update. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-4945 |
| OES notification: | 10/25/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 10/25/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While in the process of restarting a process plant, burning natural gas at flare system, without flare recovery on, calculating amounts at this time, believe not over the reportable amount. Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1721 |
| OES notification: | 03/29/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 3/29/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Flaring |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | Courtesy call, displacing hydrogen, will call if reportable quantities of S02 & N0 are recorded. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-4044 |
| OES notification: | 07/13/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 7/13/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur DioxideNitric Oxide |
| Pounds: | 8 |
| Unknown: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is a continuous release of flare emissions. The amounts provided are the maximum daily amount of emissions. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-3341 |
| OES notification: | 06/18/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/18/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The north yard flare gas recovery is overpressured due to the heat of the day. This resulted in slight flaring that may hit reportable quantities. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3342 |
| OES notification: | 06/18/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/18/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Due to heat possible, under investigation. Will call back with RQ’s |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-0293 |
| OES notification: | 01/15/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Unknown |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 1/15/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 5 |
| Number of Injuries: | 1 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released due to a fire at the number 4 crude unit. Caller states that the plant was in the process of shutting down when the fire occurred. Caller states the fire is still on going and units are responding. Caller states the injury was a person who was administered 1st aid. Not life threatening and not transported. Caller states the 5 personnel evacuated where from the immediate fire area and a shelter in-place order for the refinery has been issued. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-0261 |
| OES notification: | 01/12/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | UNK |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2007 |
| Agency: | Chevron |
| Incident Date: | 1/12/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur dioxide |
| Gallons: | 0.000000 |
| Pounds: | 26000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Initial notification for flare work. Current scope of operations will last until 27 Feb 2007. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-2942 |
| OES notification: | 06/01/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/1/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring due to 18 plant start up. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-2943 |
| OES notification: | 06/01/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/1/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Vaporizer is malfunctioning. |
| | |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0584 |
| OES notification: | 01/30/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 1/30/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare gas recovery compressor is experiencing mechanical difficulty. Note: This is an ongoing release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-1130 |
| OES notification: | 02/27/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron Refinery |
| Incident Date: | 2/27/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | May reach possible RQ due to flare activity and maintenance. Problem with a boiler feedwater system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-2547 |
| OES notification: | 05/12/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 5/12/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A system is being overloaded. The cause is unknown at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-4578 |
| OES notification: | 08/02/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Rel to air |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 8/2/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost our hydrogen recovery plant. Potential release, had related flaring to that event. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 1-0821 |
| OES notification: | 02/08/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 2/8/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While staring up the diesel hydro treater NO2 was released to the flare. The release may possibly exceed the RQ. There is also training going on in the area that cause some smoke not related to this release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-1770 |
| OES notification: | 03/24/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 3/24/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Three of the four pilot lites are not lit so they took it off flare gas to light those. Flare did not go out. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 3-1114 |
| OES notification: | 02/26/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond |
| Incident Date: | 2/26/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Problem in unit, caused incident releasing product. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 3-1634 |
| OES notification: | 03/26/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 3/26/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide (NO) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released due to E140 plugging in SDA Plant which necessitated being off flare gas |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

recovery which caused flaring. This is an going release.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 8-0906 |
| OES notification: | 02/22/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 2/22/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfer Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Safety device lifted |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-1625 |
| OES notification: | 03/25/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 3/25/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A plant unset caused the release. The amount released may exceed RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-1367 |
| OES notification: | 03/12/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 3/11/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 20 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | High vibrations caused system failure relieved to the flare. Emissions are from the safety flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-4445 |
| OES notification: | 08/17/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 8/17/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible equipment failure has caused the release. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Not reported

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-3119 |
| OES notification: | 06/06/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/6/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released from a flare due to daytime heating. There has been a release of both substances, however unknown if the release will exceed reportable quantities. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 08-4993 |
| OES notification: | 07/08/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Measure: | Bbl.(s) |
| Other: | Not reported |
| Date/Time: | 1230 |
| Year: | 2008 |
| Agency: | Chevron |
| Incident Date: | 7/8/2008 |
| Admin Agency: | ERROR: Server error: Entry not found in index |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Lube Oil |
| Quantity Released: | 1 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Unknown reason for the oil on the ground. The oil was discovered on the ground near cooling pumps. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 1-0271 |
| OES notification: | 01/13/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 1/13/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen OxideSulfur Dioxide |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While preparing a reactor, R-1610, for maintenance, they will be dumping the catalyst out of it. This will be burned in a flare. They are starting the process now. Unknown if the sulfur dioxide will reach a reportable quantity. The caller will addvise of the amounts when computed. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-1752 |
| OES notification: | 03/30/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 3/30/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | There has been a released to the flare for unknown reason. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-2313 |
| OES notification: | 04/28/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 4/28/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | There is a possible release beyond the report quantities. A K3950/flare gas recovery compressor went down, resulting in the release to the flare. There is no impact to the community at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-3708 |
| OES notification: | 09/21/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron USA |
| Incident Date: | 9/21/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Power outage caused loss of sulfer processing unit resulting in automatic flaring of gas into air. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-4738 |
| OES notification: | 08/08/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 8/8/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nox |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller advised that plant operations from the heat of the day caused the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3558 |
| OES notification: | 06/29/2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 6/29/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible release, K-1171 came down due to bad valve. Note: This is an on going release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3504 |
| OES notification: | 06/26/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/26/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare due to heat of the day |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3600 |
| OES notification: | 07/02/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 7/2/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A plugged fin fan on a compressor caused a shut down which caused a release to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3784 |
| OES notification: | 07/12/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 7/12/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost a compressor on a release system, which caused flaring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3178 |
| OES notification: | 06/10/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | nrc |
| Incident Date: | 6/10/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NCC |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | THE MATERIAL RELEASED FROM A FLARE DUE TO MAINTINANCE. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-0796 |
| OES notification: | 02/03/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 2/3/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential release due shut activity. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 9-5314 |
| OES notification: | 12/16/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Richmond Refinery |
| Incident Date: | 12/16/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Gasoline |
| BBLS: | 2 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A sump pump failed, allowing the gasoline to overfill the sump. One barrel has been recovered and one barrel went in to soil. Remediation is in progress. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 0-4255 |
| OES notification: | 09/20/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 9/20/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | nitrogen oxide (NO) |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They believe they exceeded RQ's for NO. Estimating above 10 lbs released. Final calculations are not complete. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-0829 |
| OES notification: | 02/13/2003 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Refinery |
| Incident Date: | 2/13/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released through flare system when plant shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-1358 |
| OES notification: | 03/12/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 3/12/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide NO |
| Gallons: | 0.000000 |
| Pounds: | 203 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released due to shut down of plant and purging and depressurizing equipment. Release is estimated to last 8 days. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3303 |
| OES notification: | 06/15/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/15/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrus Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | There will be a possible release due to over pressuring of the system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-3736 |
| OES notification: | 06/22/2011 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 2218 |
| Year: | 2011 |
| Agency: | Chevron - Richmond |
| Incident Date: | 6/21/2011 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Quantity Released: | 945 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states that a flaring event exceeded the reportable quantity of 500 lbs and is estimated to be 945 lbs. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 6-1421 |
| OES notification: | 03/08/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/7/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Starting up plant #5 rehn and flared |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-1782 |
| OES notification: | 04/19/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 4/19/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2, Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A compressor shut down causing a flare. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-0429 |
| OES notification: | 01/20/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | not necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 1/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | nitrogen oxidenitrogen dioxideSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Reporting possible exceeding of RQ's for above substances. Will call back with quantities when they are available (probably tomorrow). Released when equipment was shut down for maintenance. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 16-5531 |
| OES notification: | 09/10/2016 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Unknown |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | PETROLEUM |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1100 |
| Year: | 2016 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 09/10/2016 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Cooling Water |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Per the caller process conditions changed causing the cooling water to go over the top of the cooling tower and down to the ground. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-6023 |
| OES notification: | 11/20/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 11/19/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Pounds: | 60 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A planned maintenance shutdown caused at release. This is a continuing release report 01-4044 |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3256 |
| OES notification: | 06/12/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/12/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Ammonia |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Developed a pin hole leak on a line that caused a possible RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-1417 |
| OES notification: | 03/02/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 3/2/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A shut down may cause a possible release to flare. |
| | Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-5041 |
| OES notification: | 09/16/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery Richmond |
| Incident Date: | 9/16/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is a potential release, Due to shutting down Flare Gas recovery K1060 for repair. Estimated time of repair is two hours. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6963 |
| OES notification: | 12/02/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 12/2/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Gasoline;;; |
| Unknown: | UNK |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | During a routine inspection, a flange was discovered leaking gasoline to the ground. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-5047 |
| OES notification: | 09/04/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Richmond Chevron |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 9/4/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous OxideSulfur Dioxide |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Depressurizing a reactor modules Resulting in flare activity. Note Their will be controlled flares through out the night |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-5773 |
| OES notification: | 10/06/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Refinery Richmond |
| Incident Date: | 10/6/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Regular Unleaded Gasoline |
| BBLS: | 1 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released from a pipe due to a hole. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-5358 |
| OES notification: | 10/02/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 10/2/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO2 & SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Conducting maintenance on the # 4 Cat and relieving to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-5775 |
| OES notification: | 12/07/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery-Richmond |
| Incident Date: | 12/6/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A recovery from a start up and had some leak in the meantime. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 15-0305 |
| OES notification: | 01/16/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | Herman Slough |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | PETROLEUM |
| Measure: | Sheen |
| Other: | Not reported |
| Date/Time: | 1600 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2015 |
| Agency: | Chevron Refinery |
| Incident Date: | 01/16/2015 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Herman Slough |
| E Date: | Not reported |
| Substance: | Unknown Oil |
| Quantity Released: | 1 mile |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller states: An unknown oily sheen from an unknown source is running through the Harmon slough. Containment booms have been deployed. |
| Name: | Not reported |
| Address: | 841 CHEVRON WY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 15-0310 |
| OES notification: | 01/16/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | PETROLEUM |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1830 |
| Year: | 2015 |
| Agency: | Chevron Refinery |
| Incident Date: | 01/16/2015 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Fuel - Jet Type, mixed w water |
| Quantity Released: | 50 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | During tank sampling an inadvertent valve line up caused the release, material flowed onto soil, RP handled containment and clean up. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-0228 |
| OES notification: | 01/11/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron |
| Incident Date: | 1/11/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential reportable quantity being released at this time by unknown causes |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-3388 |
| OES notification: | 06/11/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 6/11/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 Sulfur DioxidesNO Nitrous Oxide |
| Unknown: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | For unknown reasons the compressor shut down causing the alarms to sound. Calculations of the amount released will be done tomorrow by the engineers. Incident is being reviewed. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-1646 |
| OES notification: | 03/19/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 3/18/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen Sulfide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release due to TKN shutdown, started at 0001, continuous flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-3303 |
| OES notification: | 06/08/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 6/8/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release caused by lifting a safety at the plant, which caused a release to the flare. Calculations have not been completed, they will call back when amounts are available. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-1768 |
| OES notification: | 03/31/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery Richmond |
| Incident Date: | 3/31/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance is being released to the LSFO Flare.<br>This is an on going release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 16-4298 |
| OES notification: | 07/15/2016 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | N/A |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | CHEMICAL |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 1919 hours |
| Year: | 2016 |
| Agency: | Richmond Refinery |
| Incident Date: | 07/14/2016 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | N/A |
| E Date: | Not reported |
| Substance: | Sodium Hydroxide |
| Quantity Released: | N/A |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | ** Potential Release *** RP advises that due to a pin hole leak the substance released into a secondary containment area. RP advises no waterways or storm drains affected, clean up operations have been completed. This is a duplicate of of SPILL 16-4297 |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 16-4297 |
| OES notification: | 07/15/2016 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | UNSPECIFIED |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 1919 |
| Year: | 2016 |
| Agency: | NRC |
| Incident Date: | 07/14/2016 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sodium Hydroxide |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | According to NRC #1153489, "Caller reported that a discharge pipe on the property developed a leak discharging an unknown amount of caustic sodium hydroxide into secondary containment. Material has been contained and cleanup has been completed." |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-6176 |
| OES notification: | 11/12/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Oil |
| Incident Date: | 11/12/200212:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A loss of a flare gas compressor, caused the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-2164 |
| OES notification: | 04/10/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond |
| Incident Date: | 4/7/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide |
| Gallons: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Pounds: | 3167 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released from the LSFO Flare (S6010) due to start-up activity of rentaformer number 4. This release was ongoing from 7 Apr to 10 Apr 1631 Hrs |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-5807 |
| OES notification: | 12/08/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 12/8/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Starting up plant 16, and plant may leak Nitrous Oxide during start up. This is a potential spill report, will call back with updates as needed. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 954802 |
| OES Incident Number: | 7-4102 |
| OES notification: | 07/09/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron |
| Incident Date: | 7/9/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Toluene |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP States: Leak from a tank on to the ground. Possibly exceeded reportable quantity for environment. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 9-1642 |
| OES notification: | 04/14/1999 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 4/14/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Pounds: | 80 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Malfunction of level control valve on an ammonia vaporizer, exceeded limits between 1500 - 1600 hrs |
| | Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-3897 |
| OES notification: | 08/03/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 8/3/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide (NOX) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential Release: System is flaring due to electrical problems. Unknown if RQ levels have been meet. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-1144 |
| OES notification: | 02/27/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond |
| Incident Date: | 2/27/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This a Potential release due to Reactor R510 being taken down due to flange leaks. This will cause flaring |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3483 |
| OES notification: | 06/25/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/25/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring from a compressor, which could lead to possible RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 5-7251 |
| OES notification: | 12/16/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 12/16/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per caller substance is being released to flare due to gas recovery Fin Fan unit is plugging. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 10-0729 |
| OES notification: | 01/27/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Refinery |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Sheen |
| Other: | Not reported |
| Date/Time: | 1255 |
| Year: | 2010 |
| Agency: | Chevron |
| Incident Date: | 1/27/2010 |
| Admin Agency: | Contra Costa County Health Services Department |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | San Francisco Bay |
| E Date: | Not reported |
| Substance: | Sheen |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states that an unknown sheen was spotted. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-6766 |
| OES notification: | 12/14/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 12/14/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Water |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | To prevent a release, they bypassed a portion of the fluent treatment system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-5061 |
| OES notification: | 07/10/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Refinery |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1338 |
| Year: | 2008 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 7/10/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San Francisco Bay |
| E Date: | Not reported |
| Substance: | water & lube oil |
| Quantity Released: | .5 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP States: A leak an 8 inch pipeline caused the release to go into the water. The material dissipated naturally. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3133 |
| OES notification: | 06/07/2002 |
| OES Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/7/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | K3950 at D&R is shutting down for unknown reasons, is possibly releasing reportable quantities to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-5953 |
| OES notification: | 11/17/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | NRC |
| Incident Date: | 11/16/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per the NRC report, while starting up the alkalation resulting in a flaring of nitric oxide. Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-2511 |
| OES notification: | 06/06/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 6/6/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | smoke |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While working on an instrument, a false signal was sent to the compressor control, causing over pressuring which relieved to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 9-5127 |
| OES notification: | 12/03/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron |
| Incident Date: | 12/3/199912:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Life Cycle Oil |
| BBLS: | 2 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Out of service line starting leaking out of clamp area. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 0-2434 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 05/31/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 5/31/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2S. Hydrogen Sulfide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Analyzer is reporting a high level of H2S in release. Chevron is taking measurements to determine the amount. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-7502 |
| OES notification: | 12/29/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 12/29/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO;SO2;; |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released during flaring when the flare gas recovery compressor shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-6176 |
| OES notification: | 12/27/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron, Richmond |
| Incident Date: | 12/27/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Pounds: | 11 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A compressor in PKC plant failed, which caused them to send gases to flare. (See spill 00-6167) |
| Name: | Not reported |
| Address: | 841 CHEVRON WY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6774 |
| OES notification: | 11/14/2011 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1750 |
| Year: | 2011 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 11/14/2011 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Hydrocarbon - Unknown Type |
| Quantity Released: | Unk |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While starting the crude unit a fire occurred causing the release, material was combusting then flowing directly into the atmosphere, level one advisory issued on the community warning system, RP is handling containment and clean up. |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-2915 |
| OES notification: | 05/15/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/15/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Diesel |
| BBLS: | 2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A transfer line deteriorated and started leaking. Line has been isolated. All product has been confined to refinery. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-1681 |
| OES notification: | 04/12/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 4/12/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They were starting up a sour water plant in the lube oil section of the refinery. During that time, they had the release system off the flare gas recovery compressor and going to the flare itself as opposed to recovering it thru the normal system. They exceeded the amount of time they should have and exceeded the reportable quantity for SO2. At 2045 it was returned to the recovery compressor. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 8-5755 |
| OES notification: | 12/29/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 12/27/199812:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | sulfur oxide |
| Gallons: | 0.000000 |
| Pounds: | 2230 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Equipment failure at K130 allowed a release at the FCC unit flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-0230 |
| OES notification: | 01/11/2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 1/16/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | #10102439, nitrogen monoxide |
| Gallons: | 0.000000 |
| Pounds: | 600 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Future release for maintenance and shut down work. This will start on or about 01/16/02 , at 12:01 PM. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-4338 |
| OES notification: | 07/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 7/21/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring that is due to 5H2S plant shutdown with potential RQ (reportable quantity). |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-1532 |
| OES notification: | 03/13/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 3/13/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible mechanical failure caused possible RQ release through flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3056 |
| OES notification: | 06/04/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/4/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | One of the flare gas machines is being taken down. These are possible releases only, they will follow up with any actual release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 10-6923 |
| OES notification: | 11/18/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 520 |
| Year: | 2010 |
| Agency: | Chevron |
| Incident Date: | 11/18/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide (SO2) |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller is reporting that the loss of a compressor caused a flare to release materials to the atmosphere. Level 1 was activated. Flaring has stopped. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-2988 |
| OES notification: | 07/05/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 7/5/200012:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Asphalt |
| BBLS: | 1 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Pressure relief valve opened on asphalt cooler, spilling to ground only. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-2244 |
| OES notification: | 05/21/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary at this time |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/21/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | refinery vapors |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Ongoing problem. They have lost a compressor and are experiencing excessive flare activity. They will advise when they get the final calculations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-1439 |
| OES notification: | 03/16/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 3/16/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfer Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Clean up on plant that is going out of business, equipment started to overheat, caused some flare activity. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-3341 |
| OES notification: | 07/26/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 7/26/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Feed pump was lost causing an emergency shut down. Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3976 |
| OES notification: | 07/23/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron |
| Incident Date: | 7/23/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare gas recovery at LSFO was shutdown and removal of a PSV. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-5560 |
| OES notification: | 10/27/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/27/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitogen Oxice |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | POTENTIAL RELEASE: no release at this time. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 4-5307 |
| OES notification: | 09/19/2014 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | None |
| Spill Site: | Refinery |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | CHEMICAL |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 1148 |
| Year: | 2014 |
| Agency: | NRC |
| Incident Date: | 9/19/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | None |
| E Date: | Not reported |
| Substance: | Dihydrogen Sulfide |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Unknown |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Per NRC #1095869, "The caller is reporting an unknown amount of dihydrogen sulfide Released |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

into the atmosphere from the sulfur recovery unit due to Unknown causes."

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 10-0232 |
| OES notification: | 01/12/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 1330 |
| Year: | 2010 |
| Agency: | Chevron |
| Incident Date: | 1/12/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | SO2 |
| Quantity Released: | 500 |
| Unknown: | Not reported |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states that a shut down a TKC unit caused excess SO2 to be released during the higher pressures. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801‘ |
| OES Incident Number: | 3-1326 |
| OES notification: | 03/10/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | NRC |
| Incident Date: | 3/10/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Unknown Material |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Via NRC report, caller reporting release of material with strong turpentine smell from local refinery. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-2921 |
| OES notification: | 05/31/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 5/31/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released while flaring due to the loss of a flare gas recovery machine, K3950. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-4896 |
| OES notification: | 09/21/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond |
| Incident Date: | 9/21/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | Potential exceedance release: Substance is being released to flare due to over pressurization |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-5561 |
| OES notification: | 10/27/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 10/27/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Courtesy notification, they do not believe they have exceeded reportable quantities. They will be analyzing to confirm this. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-5847 |
| OES notification: | 11/11/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 11/11/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A malfunction in the NOX treatment unit caused the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6098 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 3/2/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NITRIC OXIDE |
| Gallons: | 0.000000 |
| Pounds: | 296 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT: Per NRC report: EMISSIONS FROM REFINERY FLARES DUE TO UPSET. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 3-6025 |
| OES notification: | 11/20/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 11/20/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Light Cycle Oil |
| BBLS: | 2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The spill was due to a leak in line. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-0352 |
| OES notification: | 01/16/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | N/A |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron |
| Incident Date: | 1/16/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen Sulphide |
| Gallons: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Pounds: | 100 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Due to planned maintenance work Chevron initiated a flare and they are estimating that they might hit a reportable quatity. No offsite effects that they can see. No response required, planned event |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-3173 |
| OES notification: | 06/10/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/10/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring is occurring due to a pressure safety valve lifting. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3544 |
| OES notification: | 06/28/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | nrc |
| Incident Date: | 6/28/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NITRIC OXIDE |
| Gallons: | 0.000000 |
| Pounds: | 72.3 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | THE MATERIAL RELEASED FROM DUE TO MAINTINANCE. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3545 |
| OES notification: | 06/28/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | nrc |
| Incident Date: | 6/28/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NITRIC OXIDE |
| Gallons: | 0.000000 |
| Pounds: | 42.1 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | THE MATERIAL RELEASED FROM FLARE DUE TO AN EQUIPMENT FAILURE. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3548 |
| OES notification: | 06/28/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/28/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | K-3950 Compressor shut down, causing flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3551 |
| OES notification: | 06/29/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/29/200212:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Starting 18 plant which could cause flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-0587 |
| OES notification: | 01/26/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None needed |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 1/25/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Potential Sulfur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential reportable release due to flaring activity. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6110 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 10/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Equipment failure in FCC unit caused flaring while repairs were made |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94301 |
| OES Incident Number: | 8-3012 |
| OES notification: | 07/01/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 7/1/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Light oil |
| Gallons: | 10 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Sump pump seal blew allowing substance to escape. Booms have been deployed and absorbant pads are now being used to pick up the sheen |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6097 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 9/12/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 91 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT Per NRC report: Emissions from refinery flares due to refinery upset. This is a past release reported to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 9-1430 |
| OES notification: | 03/30/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Unknown |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron - Richmond Refinery |
| Incident Date: | 3/25/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrocarbon |
| BBLS: | 5 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Occurred 03/25/99, due to fire at Refinery, estimate of 5-15 bbls of hydrocarbons impacted soil and possibly ground water. Hydrocarbons were mixed in with fire water runoff. Determined after inspection today (3/30/99). No injuries or evacuations associated with the hydrocarbon release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-4426 |
| OES notification: | 07/26/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Not stated |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | NRC |
| Incident Date: | 7/21/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Gallons: | 0.000000 |
| Pounds: | 521 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per NRC report: "Caller stated that sulfur dioxide releassed from a crude flaring unit to the flare due to high temperatures in the weather." REMEDIAL ACTIONS: "The unit stopped venting when in cooled down." |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-3577 |
| OES notification: | 08/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 8/10/200012:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | sour gas |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 20 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They found a hole in a 12 inch sour gas line. They are taking the line out of service. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-3585 |
| OES notification: | 08/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 8/10/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While working to repair an earlier release, causing an H2S break through to the furnaces, caused the excess in release, situation is now under control, no further releases. Will follow up with investigation to determine amount. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-1450 |
| OES notification: | 03/17/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 3/17/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 and NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | TKC unit flare gas recovery was off line due to sour oil trap. Release may have exceeded reportable quantity. Release amount is under investigation and should be determined by tomorrow (3/18/02). Chevron will call back with release amounts. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 1-3683 |
| OES notification: | 06/27/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Richmond CA. |
| Incident Date: | 6/27/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| E Date: | Not reported |
| Substance: | NOH2sS02 |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Emergency Dump valve on DHT failed to open. No containment necessary went to vapor format. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-7282 |
| OES notification: | 12/18/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 12/18/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide (NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released to flare due to a power dip. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-5757 |
| OES notification: | 10/11/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 10/11/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO (Nitrogen Oxide)SO2 ( Sulphur Dioxide) |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release is due to Booster compressor Failure. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-2488 |
| OES notification: | 04/02/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay. |
| Spill Site: | Refinery |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Pt.(s) |
| Other: | Not reported |
| Date/Time: | 0730 |
| Year: | 2008 |
| Agency: | Chevron Refinery / Richmond |
| Incident Date: | 4/2/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San Francisco Bay. |
| E Date: | Not reported |
| Substance: | Hydraulic Oil |
| Quantity Released: | 1/2 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | A hydraulic line leak on a vapor recovery arm was the cause of this release. Caller states the small release is boomed and is being padded for removal from the water. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 15-0033 |
| OES notification: | 01/03/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 2145 |
| Year: | 2015 |
| Agency: | Chevron Refinery |
| Incident Date: | 01/03/2015 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Pentane |
| Quantity Released: | unk |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller states a Pentane pump had a mechanical failure resulting in the release of an unknown amount of Pentane which was burned off during flaring. Investigation is underway. Plant has been shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-2209 |
| OES notification: | 05/19/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 5/19/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrocarbon gas |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The facility had a power dip which caused a flare.<br>Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-3151 |
| OES notification: | 05/31/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/31/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The reportable quantities are believed to be exceeded. The release occurred due to a flare gas machine being taken offline. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 1-3153 |
| OES notification: | 05/31/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/31/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | None |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A compressor went offline, there has been no release yet but there is the potential for flaring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 4-5094 |
| OES notification: | 09/11/2014 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 545 |
| Year: | 2014 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | NRC |
| Incident Date: | 9/11/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Quantity Released: | 500 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Power failure |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Other |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Per NRC NRC#1095010: "CALLER STATED DUE TO A LOSS OF POWER FROM PACIFIC GAS & ELECTRIC THERE WAS A FLARING EVENT AT THE REFINERY. REMEDIAL ACTIONS CALLER STATED SLOWING BRING THE PLANT DOWN, AND DEPRESSURING." REMEDIAL ACTIONS CALLER STATED SLOWING BRING THE PLANT DOWN, AND DEPRESSURING.ADDITIONAL INFORMATION CALLER STATED THEY HAVE ATTEMPTED TO REACH THE STATE. THEY WILL CONTACT THE LOCAL AND COUNTY AUTHORITIES AS WELL." |
| | Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0192 |
| OES notification: | 01/10/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery/Richmond |
| Incident Date: | 1/10/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential for NOX release of a reportable quantity during start up of a plant #4 rheniformer, amount to be calculated later. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2263 |
| OES notification: | 04/25/2002 |
| OES Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 4/25/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential release. Chevron shut down a flare gas recovery compressor K3950. If it is down too long possible release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-2265 |
| OES notification: | 04/25/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | NRC |
| Incident Date: | 4/25/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Unknown |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per the NRC: Caller reporting a potential release due to a compressor being shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-1055 |
| OES notification: | 02/21/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/21/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible RQ. Lot complex is having problems, due to flaring there may be a reportable quantity. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-1066 |
| OES notification: | 02/21/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/19/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Crude Oil |
| BBLS: | 3 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A broken flange on crude line caused spill. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 12-3561 |
| OES notification: | 06/19/2012 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Pt.(s) |
| Other: | Not reported |
| Date/Time: | 903 |
| Year: | 2012 |
| Agency: | Chevron Products Co |
| Incident Date: | 6/19/2012 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San Francisco Bay |
| E Date: | Not reported |
| Substance: | Hydrocarbon oil Mixture |
| Quantity Released: | 1 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states substance was released from a pipe at the wharf during maintenance. Caller states substance was in the pipe elbow. Booms and pads applied. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-7195 |
| OES notification: | 12/14/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 12/14/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Pounds: | 42 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release from a flare due to mechanical breakdown. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-5171 |
| OES notification: | 09/06/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 9/6/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrocarbon Liquid |
| BBLS: | 2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Unknown cause but caller suspects an abandoned pipe line is the cause of the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 9-2246 |
| OES notification: | 05/25/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron - Richmond Refinery |
| Incident Date: | 5/25/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2S |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare went out, attmpting to relight now, possible reportable quantity being released will update as necessary |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-0823 |
| OES notification: | 02/07/2006 |
| OES Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond |
| Incident Date: | 2/7/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide (SO2) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | POTENTIAL RQ, Substance is being released to flare due to lose of hydrogen recycle compressor on the TCK unit. Notification was made at 1234 Hrs through the Community Warning System. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-6026 |
| OES notification: | 10/20/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 10/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Testing and maintaining equipment, believe they will reach reportable quantities. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-0554 |
| OES notification: | 01/24/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 1/24/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Potential Sulfur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Ongoing flaring and it has been calculated that an estimated potentail release of SO2 from LSFO flare during our DHT shutdown. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2728 |
| OES notification: | 05/21/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/20/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Break Through in number 4, H2S Plant. Leading to possible RQ of SO2 from North Yard Furnace. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-2890 |
| OES notification: | 05/30/2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | NRC |
| Incident Date: | 5/30/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 0.4 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per fax from the NRC: The material released from a flare due to over pressuring. The caller had no additional information. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-1657 |
| OES notification: | 03/19/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/19/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2NO |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is a potential reportable quantity release, lost a flare gas recovery unit, and some NO and SO2 was released. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-5113 |
| OES notification: | 09/19/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/18/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Related to heat conditions, their flare may have exceeded continuous report limits for NO and SO2. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-4643 |
| OES notification: | 08/04/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | NRC |
| Incident Date: | 8/4/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfuric Acid |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller reports a sulfuric acid line has a hole due to corrosion in the line causing a release of material. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 1-5003 |
| OES notification: | 09/02/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/2/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous OxideSulphur Dioxide |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A release to the flare for unknown reason that may have exceeded R.Q. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 8-5016 |
| OES notification: | 11/07/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | 38 Foot Channel |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron Richmond |
| Incident Date: | 11/7/199812:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Light Diesel |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Chevron operates a Pump station for the City Of Richmond, pump station discharges via Richmond Refinery and discharges directly into San Pablo Bay. An refinery environmental employee noticed a sheen in the 38 Foot Channel that discharges into San Paablo Bay. Diesel could have come from any source that pumps into that pump station, from any storm drain in Richmond. 38 Foot Channel is being boomed-off. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-5483 |
| OES notification: | 07/28/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 0720 |
| Year: | 2008 |
| Agency: | Chevron Refinery |
| Incident Date: | 7/28/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfuric Acid |
| Quantity Released: | 1000 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Unknown reasons caused this release possibly due to equipment failure |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-5530 |
| OES notification: | 09/30/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 9/30/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric OxideSulfur Dioxide |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance released to flare for unknown reason. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 8-2214 |
| OES notification: | 05/09/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | CHEVRON |
| Incident Date: | 5/9/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | JET FUEL |
| BBLS: | 20 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | LINE LEAK ON A TANK CAUSED THE RELEASE. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-4598 |
| OES notification: | 08/12/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron |
| Incident Date: | 8/12/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The release to the flare occurred for unknown reason. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-6210 |
| OES notification: | 10/28/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Texaco-Chevron Refinery |
| Incident Date: | 10/28/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric OxideSulfur Dioxide |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Upset in unit, caused flare activity. Will call in with amount calculations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-4924 |
| OES notification: | 09/11/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/11/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance is being released from D&R Flare |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2004 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 04/05/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 4/5/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2NO |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare activity. It is burning clean. May be above RQ. Will call back with final calculations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-1456 |
| OES notification: | 03/16/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 3/16/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The release was due to the lose of a flare gas recovery compressor. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2510 |
| OES notification: | 05/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron/Richmond |
| Incident Date: | 5/3/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Pounds: | 16 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare gas recovery compressor shut down due to low pressure. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0606 |
| OES notification: | 01/31/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 1/31/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | There was a malfunction on the flare gas recovery unit and gases were routed to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-3706 |
| OES notification: | 06/27/2001 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 6/27/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is an informational report only at this time, they will be shutting down a process unit tonight at the Richmond refinery, having the potential of exceeding the reportable quantities of NO and SO2. There is no release at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 16-5374 |
| OES notification: | 09/03/2016 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | N/A |
| Other: | Flaring Event |
| Date/Time: | 750 |
| Year: | 2016 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron Refinery |
| Incident Date: | 09/03/2016 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Flaring Event |
| Quantity Released: | 1 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | RP states that due to an equipment failure a flaring event took place, resulting in a visible flame. The flaring event is subsiding and should be completed by 0840 hrs. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 16-5283 |
| OES notification: | 08/30/2016 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Contractor |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | PETROLEUM |
| Measure: | Bbl.(s) |
| Other: | Not reported |
| Date/Time: | 2200 |
| Year: | 2016 |
| Agency: | Chevron Refinery |
| Incident Date: | 08/29/2016 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Hydrocarbon |
| Quantity Released: | 5-Jan |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | An above ground storage tank with a capacity of 500 barrels released an estimated 1-5 barrels of hydrocarbon to gravel. The cause of the release is likely due to a restricted outlet contributing to an overflow of the storage tank. The result was a release |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 4-7180 |
| OES notification: | 12/15/2014 |
| OES Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 815 |
| Year: | 2014 |
| Agency: | Chevron Refinery |
| Incident Date: | 12/15/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide (SO2) |
| Quantity Released: | 3,360 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Mechanical |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller states substance was released due to the TKN unit (recycle compressor ) tripping. Caller states the unit has been stabilized and the flaring has stopped. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 12-2493 |
| OES notification: | 04/26/2012 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 100 |
| Year: | 2012 |
| Agency: | Chevron |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 4/26/2012 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Quantity Released: | 940 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states that equipment malfunction resulted in the release of 940 lbs of sulfur dioxide into the atmosphere. The release is contained and will be no cleanup. No waterways have been impacted. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-1709 |
| OES notification: | 03/21/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Dissipating |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/21/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | De-pressuring C730 This will be on going for several hours |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 14448 |
| OES notification: | Not reported |
| OES Date: | 6/28/1996 |
| OES Time: | 05:31:12 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | NO |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | disssipated into the air |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | VAPOR |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1996 |
| Agency: | chevron |
| Incident Date: | 0941/6-27-96 |
| Admin Agency: | Not reported |
| Amount: | 285 & 3.6 lbs |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | so2 & so3 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | pipe taken out of service for repair. calculated that release did happen. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-4603 |
| OES notification: | 09/06/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/6/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is a report of a potential RQ release, due to equipment failure. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-0413 |
| OES notification: | 01/16/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 1/16/200512:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Shut down activity caused a release to flare. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-1481 |
| OES notification: | 03/17/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 3/17/200312:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Potential NO, H2S, SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Shut down compressor to do maintenance on a process safety valve. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-1632 |
| OES notification: | 03/18/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 3/18/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The substance was released during a start-up process. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-2585 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 05/14/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 5/14/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They lost the flare gas recovery system for 3-5 minutes and they may have exceeded RQs for NO and SO2. They will call back tomorrow with final calculations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 8-4971 |
| OES notification: | 11/04/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 11/4/199812:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Pounds: | 100 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A malfunction in the co-generation unit. Allowed between 10-100 lbs of vapor to escape. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 15-0839 |
| OES notification: | 02/10/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 1718 |
| Year: | 2015 |
| Agency: | Chevron |
| Incident Date: | 02/10/2015 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Ammonia |
| Quantity Released: | UNK |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Potential release of ammonia due equipment leak. Personnel are on-scene attempting to locate the release site. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6099 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 1/14/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 152 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Description: | Historical Report Per NRC report: Emissions from refinery flares due to unit shutdown. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6100 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 10/2/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Pounds: | 162 |
| Unknown: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT Per NRC report: Emissions from refinery flares due to upset. This is a past release reported pursuant to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6377 |
| OES notification: | 11/04/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 11/4/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide;Sulfur Dioxide;; |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Unknown hydrocarbon release to the system as caused this release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3875 |
| OES notification: | 07/17/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 7/17/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2S (hydrogen sulfide) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost a compressor and gas recovery unit. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-1767 |
| OES notification: | 03/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 3/21/200512:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Potential Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential release due to start up of unit. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 4-6655 |
| OES notification: | 11/21/2014 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Yes |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 2130 |
| Year: | 2014 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 11/20/2014 |
| Admin Agency: | Unknown - all returned |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | H2S - Hydrogen Sulfide |
| Quantity Released: | N/A |
| Unknown: | Not reported |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Mechanical |
| Fatals: | No |
| Comments: | Not reported |
| Description: | ****POTENTIAL RQ**** A potential RQ for H2S due a leaking valve at TKC plant. They have not exceeded RQ yet, but are evaluating. They evacuated the TKC unit last night but employees have returned to the plant. ****POTENTIAL RQ **** |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 8-1578 |
| OES notification: | 04/01/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 4/1/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Jet gasolene |
| BBLS: | 1 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Line leak, corrosion. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-2451 |
| OES notification: | 05/10/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 5/10/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost recycle compressor which caused release. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-2578 |
| OES notification: | 05/18/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 5/18/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | A compressor shut down.which caused a release to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 3-4367 |
| OES notification: | 08/25/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 8/25/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare gas compressor failed which caused a release to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-6193 |
| OES notification: | 12/01/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 12/1/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released from flaring due to a compressor shutdown. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-6414 |
| OES notification: | 12/12/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 12/12/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Loss of K10 60 and K10 70 causing flair activity and possible SO2 and NO exceedance of reportable quantity. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 3-4796 |
| OES notification: | 09/16/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/13/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Pounds: | 20 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | ***Late report*** This occurred on 09/13/03 at 8:29 PM. Release was caused by a loss of steam injection to the co-generation unit. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-1271 |
| OES notification: | 03/07/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 3/7/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible of a RQ being reached due to flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-6441 |
| OES notification: | 12/14/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 12/14/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A flare resulting from the shutdown of the FCC unit. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-6446 |
| OES notification: | 12/15/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 12/15/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & So2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Fcc unit startup is resulting in some flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-1481 |
| OES notification: | 03/05/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 3/5/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Description: | Process of shutting down unit caused flaring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94082-0272 |
| OES Incident Number: | 8-3549 |
| OES notification: | 08/05/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 8/5/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | sulfer trioxide |
| Gallons: | 0.000000 |
| Pounds: | 100 |
| Unknown: | 0 |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | temperature variation in the stack. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 26 |
| OES notification: | Not reported |
| OES Date: | 2/10/1994 |
| OES Time: | 09:22:51 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | NO |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Not reported |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | VAPOR |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 1994 |
| Agency: | chevron refinery |
| Incident Date: | 021094 0245 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | NO |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | so 2 unknown if release has occurred |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | power failure caused sulfur recovery unit to shut down |

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-1754 |
| OES notification: | 03/23/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery-Richmond |
| Incident Date: | 3/23/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen OxideSulfur Dixoide |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Isomex unit was taken off of the flare gas recovery, which has caused the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-5198 |
| OES notification: | 08/31/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron-Texaco Refinery |
| Incident Date: | 8/31/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Loss of RK1171 vent gas compressor, equipment malfunction. |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1311 |
| OES notification: | 03/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 3/8/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Plant start-ups at Number 4; Crew Unit SDA; and the Poly plant. Possible flare activity may occur between 2000hours 03/08/02 and 0600hours 03/09/02 |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3273 |
| OES notification: | 06/13/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron |
| Incident Date: | 6/13/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Working on a 2" line on V801. The RLOP has been taken off flare gas recovery, which is causing flaring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3129 |
| OES notification: | 06/07/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/7/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | An upset at LSFO unit may result in the release of reportable quantities of SO2 and NO. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-0748 |
| OES notification: | 02/04/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | NRC |
| Incident Date: | 2/4/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide/Dioxide |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A FLARE GAS SYSTEM FAILED DUE TO OVERPRESSURIZATION CAUSING THE MATERIAL TO RELEASE FROM THE FLARE INTO THE ATMOSPHERE. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 1-0680 |
| OES notification: | 02/01/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/1/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | nitrogen oxidenitrogen dioxidesulfur dioxide |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare gas overloaded at the Rlot lube oil plant. Release may have exceeded RQ's. He will call back when they determine the amounts released. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-7022 |
| OES notification: | 12/05/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2005 |
| Agency: | Chevron Richmond |
| Incident Date: | 11/30/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 20 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Historical: Substance was released to flare due to start-up activities. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-7024 |
| OES notification: | 12/05/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond |
| Incident Date: | 12/2/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 50 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released to the FCC flare due to Polly Plant start-up. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-1107 |
| OES notification: | 02/25/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 2/25/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX or SOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They lost a flare gas recovery compressor on unit |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

K1171A.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-6110 |
| OES notification: | 11/25/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 11/25/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX & SOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The release is due to a flare. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 12-4477 |
| OES notification: | 08/01/2012 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 1056 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2012 |
| Agency: | Chevron |
| Incident Date: | 8/1/2012 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Quantity Released: | Unk |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is a potential release, with amounts to be reported later. A compressor went off line causing this flaring event. No impact to the community at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 9-0869 |
| OES notification: | 02/24/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron |
| Incident Date: | 2/23/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Diesel |
| BBLS: | 2 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flange leak |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-3585 |
| OES notification: | 09/12/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron Richmond |
| Incident Date: | 9/12/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen sulfide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | 105 168 Line leak, internal corrosion. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-6036 |
| OES notification: | 11/07/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 11/7/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost burner pilots on flare due to storm activity. Undetermined if reportable quantity has been released. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3094 |
| OES notification: | 06/05/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/5/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Heat of the day overloaded the system causing a possible RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-1192 |
| OES notification: | 03/23/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | CHEVRON |
| Incident Date: | 3/23/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SPENT COSTIC |
| BBLS: | 3 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | SUBSTANCE OVERFLOWED FROM STORAGE TANK. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 17-0214 |
| OES notification: | 01/09/2017 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 146 |
| Year: | 2017 |
| Agency: | Chevron Refinery - Richmond |
| Incident Date: | 01/07/2017 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | SO2 |
| Quantity Released: | 500 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | Per the Caller: A plant upset resulted in flaring causing the release of SO2 of greater than 500 lbs. The release is no longer occurring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-3910 |
| OES notification: | 08/04/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 8/4/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Possible Sulphur Dioxide SO2 |
| Gallons: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible release is due to the RLOP unit being warmed up and South ISOMAX unit being taken off recovery. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-0733 |
| OES notification: | 02/19/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 2/19/199712:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2s |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Unknown source, received outside complaints of strange odor. Suspects H2s, investigation still being conducted to locate source. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-1832 |
| OES notification: | 03/23/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 3/23/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential RQ of Nitrous Oxide and SOX Substance went to flare and stopped. They will have an engineer come in and calculate amount that went to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 9-4245 |
| OES notification: | 10/06/1999 |
| OES Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron Refinery |
| Incident Date: | 10/6/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | #6 Fuel Oil |
| BBLS: | 4 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | flange leak on a pipeline |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-6805 |
| OES notification: | 12/16/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 12/16/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The pilot light on flare was blown out by the high winds. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-1780 |
| OES notification: | 03/25/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/25/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur DioxideNitrogen Oxide |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential for substances to be released, they are in a plant start-up. They will update every 24 hrs thruout the start up to let us know if they have a reportable quantity. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 8-1494 |
| OES notification: | 03/27/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 3/27/199812:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Aviation Fuel/Water |
| BBLS: | 25 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Preparing to draw water from the bottom of the tank and a valve was open causing fuel to go on the ground. Material flowed into containment area and 20 bbls was recovered |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-2417 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 04/21/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 4/21/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | There was a possible RQ release during startup of hydoprocessing plant. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-2819 |
| OES notification: | 05/10/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 5/10/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Intermittent flaring at this time due to loss of the crude unit. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 77401 |
| OES Incident Number: | 6-2820 |
| OES notification: | 05/10/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Pipeline Co |
| Incident Date: | 5/10/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Supreme Unleaded Gasoline |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Pressure relief valve relieved to the sump pit causing the sump pit to overflow. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 3-5493 |
| OES notification: | 10/23/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Texaco |
| Incident Date: | 10/23/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfuric Acid |
| BBLS: | 10 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | There was a leak in the line. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 4-3990 |
| OES notification: | 07/16/2014 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 210 |
| Year: | 2014 |
| Agency: | Chevron |
| Incident Date: | 7/16/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Quantity Released: | Unk |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Unknown |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller is reporting a possible release of Sulfur Dioxide due to a leak and a fire at the refinery. The fire is out, there were no injuries and no evacuations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 13512 |
| OES notification: | Not reported |
| OES Date: | 4/30/1996 |
| OES Time: | 12:40:37 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | CHEVRON |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | PETROLEUM |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1996 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | CHEVRON |
| Incident Date: | 1230 30APR96 |
| Admin Agency: | Not reported |
| Amount: | 1 BBL |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | GASOLINE |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | TRANSFER LINE LEAK DUE TO EXTERNAL COROSSION |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 0-2169 |
| OES notification: | 05/17/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 5/16/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare gas recovery wasn't pumping to flare gas recovery. It was not pumping for a little less than 3 hrs. R/P is not positive they hit an RQ but wanted to report it anyway, will call back with update. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-4184 |
| OES notification: | 09/16/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 9/15/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | nitrous Oxide |
| Gallons: | 0.000000 |
| Pounds: | 15 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Miscalculation during plant cleanup |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-4763 |
| OES notification: | 08/09/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 8/9/2006 12:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller advised that a safety valved failed releasing hydrogen. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-0199 |
| OES notification: | 01/10/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron |
| Incident Date: | 1/9/200512:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | An H2S breakthrough in the process gas caused the release, no threat to the public. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-1212 |
| OES notification: | 03/14/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 3/14/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Gas Flare |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | While putting a column in service there was a pluming flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-1249 |
| OES notification: | 03/16/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 3/16/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Jet Fuel |
| BBLS: | 1.5 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Appears to be that a underground pipe failed due to fatique. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 13252 |
| OES notification: | Not reported |
| OES Date: | 4/13/1996 |
| OES Time: | 09:27:21 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | YES |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | chevron |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | PETROLEUM |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1996 |
| Agency: | chevron |
| Incident Date: | 2100 13Apr96 |
| Admin Agency: | Not reported |
| Amount: | 5 bbls |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | unleaded fuel |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | a line was resting on a support, release possibly due to abrasion. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 72 |
| OES notification: | Not reported |
| OES Date: | 2/18/1994 |
| OES Time: | 12:55:39 AM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | YES |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | CHEVRON |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | CHEMICAL |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1994 |
| Agency: | MSO SF |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 2/17/94 2330 |
| Admin Agency: | Not reported |
| Amount: | 1000 LBS |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | SULPHURIC ACID |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | OPERATOR OVERFILLED TANK FLOWED INTO WASTE WATER. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6104 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond |
| Incident Date: | 5/15/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Failure of compressor K-1060 in the isomax unit resulted in flaring while repairs where made. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6105 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 5/31/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Failure of compressor K-1060 in the isomax unit resulted in flaring while repairs where made. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6106 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 9/12/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Failure of compressor K-800 in the isomax unit resulted in flaring while repairs where made. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6111 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 1/14/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Planned maintenance work for RLOP unit caused flaring |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6112 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 3/3/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Planned Maintenance work for RLOP unit caused flaring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-5592 |
| OES notification: | 11/29/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 11/28/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | while starting up a piece of equipment using a catalyst exceeded quantity of Hydrogen sulfide which cause release and burned at flair... |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3803 |
| OES notification: | 07/13/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 7/13/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Periodic flaring from maintenance, may reach possible RQ. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-3821 |
| OES notification: | 07/03/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 7/3/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible RQ heat of the day related issues cutting feed to delay the problem. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-4856 |
| OES notification: | 07/01/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Bbl.(s) |
| Other: | Not reported |
| Date/Time: | 1000 |
| Year: | 2008 |
| Agency: | Chevron |
| Incident Date: | 7/1/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Gasoline |
| Quantity Released: | 1 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states that they were putting a pipe back into service and off-loading a tank into a vacuum truck. Gasoline started spilling out of a pressure relief valve on top of the truck. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 344 |
| OES notification: | Not reported |
| OES Date: | 11/22/1994 |
| OES Time: | 05:17:05 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | NO |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | DISSIPATED |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | CHEMICAL |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1994 |
| Agency: | CHEVRON REFINERY |
| Incident Date: | 2100 11/20/94 |
| Admin Agency: | Not reported |
| Amount: | 1LB + |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | SO2 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | H2S BREAK THROUGH IN TREATING SYSTEM. # V-870 |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 1-1807 |
| OES notification: | 03/27/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/27/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | LSFO complex shut down and clean up of K900A |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-3229 |
| OES notification: | 06/25/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 6/25/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Relief gasses |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Safety valve that is prematurely lifting in gas recovery area. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-3380 |
| OES notification: | 05/09/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 0700 |
| Year: | 2008 |
| Agency: | Chevron |
| Incident Date: | 5/9/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | NO |
| Quantity Released: | 1400 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A cogen upset caused a release that possibly exceeded RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94810 |
| OES Incident Number: | 8-5030 |
| OES notification: | 11/09/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 11/8/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | unk |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 4 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Four (4) contractors were complaining of sore throats and nausea, they stated they were smelling a rotton egg smell ( typical H2S smell ), they were sent to the company doctor for evaluation and this report is being made as a precaution. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1435 |
| OES notification: | 03/16/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/16/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | K1900 machine malfunctioned and shut down, causing substance to be released through flaring. NOTE:This is an ongoing release, It is unknown if quantities are reportable at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3145 |
| OES notification: | 06/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron |
| Incident Date: | 6/8/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Some Flaring due over pressuring north yard flare gas recovery system. This is an ongoing release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-3147 |
| OES notification: | 06/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Products |
| Incident Date: | 6/8/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | KL71 compressor is down for routine maintenance, causing this event. This is a minor event, without complication. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-2024 |
| OES notification: | 04/12/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 4/12/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Mechanical failure which may cause a RQ. |
| | |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1442 |
| OES notification: | 03/17/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/17/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Equipment Failure resulted in short release to flare. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-1867 |
| OES notification: | 03/25/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Oil |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 3/25/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide (SO2) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released to flare. This release occurred due to a check valve sticking. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-4745 |
| OES notification: | 09/14/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond |
| Incident Date: | 9/14/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released due a leaky valve on column C1020 |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 12-1139 |
| OES notification: | 02/27/2012 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 2124 |
| Year: | 2012 |
| Agency: | Chevron Refinery Richmond |
| Incident Date: | 2/27/2012 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | SOX 2 |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP is reporting a flaring event due to low feed rates and unstability of the plant. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 0-5329 |
| OES notification: | 11/14/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery-Richmond |
| Incident Date: | 11/13/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Pounds: | 10.2 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare gas recovery compressor is shut down on high temperature valve due to high concentration of nitrogen in the system. The gasses in the relief system are being burnt at the flare and the product of that combustion has generated more than 10 pounds of NO, no impact on the public other than visual. Flare between 6-8'. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 1-1695 |
| OES notification: | 03/21/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/21/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX, SO |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare was shut down to blow out tube during the start-up process. This process may cause releases above the RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-0202 |
| OES notification: | 01/07/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 1/7/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The caller is reporting a potential release due to flaring. The flaring was caused by a shut down for emergency repair of compressor. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-4260 |
| OES notification: | 08/06/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 8/6/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | PRD is prematurely leaking bye, cause the minor flaring, no threat to the public. Will call back if RQ's are met. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-4642 |
| OES notification: | 08/27/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 8/27/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Minor flaring from D and R Flare. This is an ongoing release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6474 |
| OES notification: | 11/08/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 11/8/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2;;; |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flares produced from north yard, under investigation. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-0284 |
| OES notification: | 01/11/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Texaco Richmond |
| Incident Date: | 1/11/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | K3950 Flare Gas recovery compressor was shut down due to equipment issues, causing the flaring to begin, and should continue into early tomorrow evening. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-5930 |
| OES notification: | 10/05/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Texaco |
| Incident Date: | 10/5/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released due to plant upset. They will call back with amount once its been calculated. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-5929 |
| OES notification: | 10/05/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/5/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance is being released to flare due to a dip in power . |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 320 |
| OES notification: | Not reported |
| OES Date: | 3/18/1994 |
| OES Time: | 11:36:53 AM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | CHEVRON USA |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | PETROLEUM |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1994 |
| Agency: | CHEVRON USA |
| Incident Date: | 3/18/94 1100 |
| Admin Agency: | Not reported |
| Amount: | 1BBL+ |
| Contained: | NO |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | GASOLINE |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | LINE LEAK DUE TO EXTERNAL CORROSION |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 10-0338 |
| OES notification: | 01/16/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Bbl.(s) |
| Other: | Not reported |
| Date/Time: | 1630 |
| Year: | 2010 |
| Agency: | Chevron |
| Incident Date: | 1/16/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Av Gas |
| Quantity Released: | 4 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A valve was left open on a storage tank and the substance spilled to the ground. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-0353 |
| OES notification: | 01/13/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 1/13/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Description: | Substance was released to flare due to an instrument problem on a compressor. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 10-3330 |
| OES notification: | 05/31/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 1445 |
| Year: | 2010 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/31/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states that there is an ongoing flaring event while starting up the FCC unit. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 4-4788 |
| OES notification: | 08/25/2014 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San francisco Bay |
| Spill Site: | Waterways |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | PETROLEUM |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1445 |
| Year: | 2014 |
| Agency: | Chevron |
| Incident Date: | 8/25/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San francisco Bay |
| E Date: | Not reported |
| Substance: | Oily Water Mixture |
| Quantity Released: | 2 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Mechanical |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller is reporting a mixture of water and recovered oil spilled from a pipe due to maintenance on the pipe into the San Francisco Bay. Chevron is handling the clean up. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 9-5168 |
| OES notification: | 12/06/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron |
| Incident Date: | 12/6/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | K3950 taken out of service, to replace a bad PSV. Reached the RQ of 500 lbs SO2 at 1PM. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3339 |
| OES notification: | 06/18/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/18/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare gas recovery systems, will call back with RQ's |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-1937 |
| OES notification: | 04/02/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 4/2/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | hydrogen |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Calculations are not available. Flare activity has terminated, it did flare for about 3 minutes. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 08-3125 |
| OES notification: | 04/29/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 1500 |
| Year: | 2008 |
| Agency: | Chevron-Richmond |
| Incident Date: | 4/29/2008 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Flare of hydrocarbons |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | ****POTENTIAL RELEASE NOTICE**** Loss of a pump at the plant caused a plant upset which caused some flaring. Per the RP, there is potential for flaring to occur again. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-4796 |
| OES notification: | 08/11/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Refinery |
| Incident Date: | 8/11/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release due to maintenance that required compressor to be shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-0677 |
| OES notification: | 02/04/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Texaco |
| Incident Date: | 2/4/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Bomb threat |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per NRC report, the company received a threat of a possible problem or explosion to a process unit at 1900 hours local time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-0677 |
| OES notification: | 02/04/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Texaco |
| Incident Date: | 2/4/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | Bomb threat |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per NRC report, the company received a threat of a possible problem or explosion to a process unit at 1900 hours local time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0960 |
| OES notification: | 02/20/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Oil |
| Incident Date: | 2/20/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO/SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Vapor was released during maintenance of flare gas recovery compressor. It is ongoing, no threat to the public. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2330 |
| OES notification: | 04/21/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 4/21/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | MTBE |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A leak in line due to wear. The spill was contained in compound area. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-3011 |
| OES notification: | 05/24/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/24/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H3PO4HC |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The poly plant packing blew out a valve causing the chemical and vapor to be released. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-3011 |
| OES notification: | 05/24/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/24/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H3PO4HC |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The poly plant packing blew out a valve causing the chemical and vapor to be released. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-5633 |
| OES notification: | 09/28/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/27/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A flaring event occurred, the amount is approximate. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-3713 |
| OES notification: | 06/22/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 6/22/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur Doxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare activity due to heat of the day. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1124 |
| OES notification: | 02/27/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 2/27/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | A mechanical failure at plant caused a release to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-2123 |
| OES notification: | 05/27/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron |
| Incident Date: | 5/27/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Jet fuel |
| BBLS: | 1 |
| Gallons: | 0.000000 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Feed tank leaked |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3591 |
| OES notification: | 07/01/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 7/1/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flare Gas Compressors are having problems. This is an on going release carried over from OES report 02-3571. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3594 |
| OES notification: | 07/01/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/29/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Pounds: | 800 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release is from a compressor failure, no threat to the public, approx. same release for both vapors until Thursday everyday. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3259 |
| OES notification: | 06/13/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/13/200212:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | N02 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Instrumental problem is resulting in flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 0-1161 |
| OES notification: | 03/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 3/10/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Refined Wax |
| BBLS: | 2.5 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 1 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Rail car was overflowed. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94810 |
| OES Incident Number: | 1-0978 |
| OES notification: | 02/16/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/16/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Pounds: | 10 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release occurred due to routine shutdown and plant activity, at plant TKN. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 0-5306 |
| OES notification: | 11/12/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 11/12/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare gas recovery compressor is shut down on high temperature valve due to high concentration of nitrogen in the system. The gasses in the relief system are being burnt at the flare and the product of that combustion has generated more then 10 lbs of NO, no impact on the public other than visual. Flare between 6-8'. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 7-4726 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 11/26/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron |
| Incident Date: | 11/26/199712:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Industrial Plant |
| E Date: | Not reported |
| Substance: | Hydrogen Sulfide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Crude unit shut down caused flare activity. Reporting party states that this will probably not be a reportable quantity but wants to cover his bases. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 904801 |
| OES Incident Number: | 1-7274 |
| OES notification: | 12/16/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Products |
| Incident Date: | 12/16/200112:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2;;; |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Mechanical failure at the Alkylation plant, equipment #C1400, causing flares. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2657 |
| OES notification: | 05/18/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/18/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Mechanical failure at plant RLOP, causing release to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 12-4589 |
| OES notification: | 08/06/2012 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 1815 |
| Year: | 2012 |
| Agency: | Chevron |
| Incident Date: | 8/6/2012 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Quantity Released: | UNK |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | UNK |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The caller is reporting a fire in the crude unit, unknown cause. Also released is Sulfuric Acid and Nitrogen Dioxide. There is no shelter in place order at this time. The amounts released are above RQ. |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6107 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 9/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL SPILL: Failure of compressor K-600 in the isomax unit resulted in flaring while repairs where made. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 1-0497 |
| OES notification: | 01/24/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron |
| Incident Date: | 1/24/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | nitrous oxide |
| Pounds: | 10 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | potential spill if work not complete by 1550 due to flaring |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-0571 |
| OES notification: | 01/24/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 1/23/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | An upset in a process unit caused the release. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 7-0158 |
| OES notification: | 01/08/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | None |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron's Richmond Refinery |
| Incident Date: | 1/8/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Flare |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | 01-08-07 at 1855 hours, a valve would not close causing a flare. Valve stuck open only for a minute. |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-0953 |
| OES notification: | 02/14/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/14/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen OxideSulfur Dioxide |
| Pounds: | 10 |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring on FCC flare of NO/hydrocarbon as part of a plan shutdown. And a south isomax flare of NO and SO2 will occur at 2330 hours. These are part of a planned event. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0154 |
| OES notification: | 01/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 1/8/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential release of RQ excess due to loss of a flare gas compressor, unrecovered gases to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-7224 |
| OES notification: | 12/13/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 12/13/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO;SO2;; |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A machine went down causing a possible RQ to be released. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6668 |
| OES notification: | 11/16/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 11/16/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO;SO2;; |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Diesel shutdown losing some vapors, will call back with update. The vapor may reach the RQ. |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-6672 |
| OES notification: | 11/17/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | NRC |
| Incident Date: | 11/17/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO;;; |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Faxed to OES by NRC: The material was released out of a flame due to an overpressure in the flare gas recovery system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-0522 |
| OES notification: | 02/04/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron Refinery |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 2/4/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfer Dioxide |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | had a visible flair activity, ended at 1858 hrs |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 0627 |
| OES Incident Number: | 1-1187 |
| OES notification: | 02/27/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | NRC |
| Incident Date: | 2/27/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The material will be releasing from a flare due to maintenance activities. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1535 |
| OES notification: | 03/20/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 3/20/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | POTENTIAL RELEASE: On going release to the flare. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-0975 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 02/15/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Richmond Refinery |
| Incident Date: | 2/15/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | DEA |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Leaking at the DHT plant. A small stream from a valve. The substance is rich in H2S. The leak has been stopped and contained within the plant. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-5427 |
| OES notification: | 10/07/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/7/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Maintained on K11A caused this release, with amounts to be calculated and called in later |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2660 |
| OES notification: | 05/18/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/18/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2S (Hydrogen Sulfide) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The refinery lost a compressor resulting in flaring of H2S, SO2 and NO. This has the potential of reaching reportable quantities. They do not anticipate any evacuations nor activating their community alert system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-1090 |
| OES notification: | 02/20/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond |
| Incident Date: | 2/20/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 & Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Minor flaring due to shutdown of TKC unit due to a line leak. Reactors had to be de-pressured resulting in flaring. Potential of reaching a reportable quantity. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-2497 |
| OES notification: | 04/27/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 4/26/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Cause of release was due do steam furnace malfunction. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-3112 |
| OES notification: | 04/29/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 0400 |
| Year: | 2008 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron Richmond |
| Incident Date: | 4/29/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide |
| Quantity Released: | 2300 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A flare occurred at the North Yard. An RLOP equipment malfunction was the cause of this release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 0-3408 |
| OES notification: | 07/30/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 7/30/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A pressure problem caused at possible reportable quantity released in flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-7693 |
| OES notification: | 12/30/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 12/29/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide and SulphuricO2 |
| Gallons: | 0.000000 |
| Pounds: | 100 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Power failure caused the loss of gas recovery compressors. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-1789 |
| OES notification: | 04/01/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 4/1/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A unit was off line in preparation for start-up which caused a release to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-4386 |
| OES notification: | 08/26/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron Refinery - Richmond |
| Incident Date: | 8/26/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | LPG |
| BBLS: | 1 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 40 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Occurred while taking the FCC unit down due to an LPG leak on a pipe. Approximately 40 employees that work in the nearby maintenance building as a precaution. The release is not anticipated to go beyond the refinery. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-1138 |
| OES notification: | 02/23/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 2/23/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Waxy Hydrocarbon |
| BBLS: | 10 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released due to a process sewer manhole backed up caused by blockage. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-0994 |
| OES notification: | 02/17/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/17/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Description: | They may exceed RQ's due to a process upset in the hydrogen system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-5704 |
| OES notification: | 09/26/2011 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Refinery |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 700 |
| Year: | 2011 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/26/2011 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San Francisco Bay |
| E Date: | Not reported |
| Substance: | Tetramer |
| Quantity Released: | 2 |
| Unknown: | Not reported |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states there was a release of "tetramer" from a loose boiler maker flange at the head of the hose while loading a cargo ship. Booms in place and clean up is underway. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 10-7162 |
| OES notification: | 11/30/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Bbl.(s) |
| Other: | Not reported |
| Date/Time: | 2230 |
| Year: | 2010 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 11/29/2010 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Hyrdrofined SCC |
| Quantity Released: | 1300 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A operator noticed the product coming down a pipeway on a hill and after investigation the product was rerouted to an alternate process line where it went into a production tank for recovery. This is on a dirt and concrete area. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 2-2361 |
| OES notification: | 04/30/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 4/30/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | POTENTIAL RELEASE: RP advises they will be taking a reactor off line, which may cause a reportable amount of the substances to be released. RP will update this report within 24 hours with calculations of the released amounts. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 2-1560 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 03/21/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond |
| Incident Date: | 3/21/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released to the flare when an overhead compressor went down. The compressor has been shut down. Unknown concentration on the release, the amount will be determined tomorrow. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-1562 |
| OES notification: | 03/21/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 3/21/200212:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Starting a DHT plant tonight, could have possible flare of SO2. This report is a precautionary. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 1-5429 |
| OES notification: | 09/24/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 9/24/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen OxideSulphur Dioxide |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A power problem at the refinery caused a release to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 16-3697 |
| OES notification: | 06/19/2016 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | OTHER |
| Measure: | N/A |
| Other: | Flairing |
| Date/Time: | 2100 |
| Year: | 2016 |
| Agency: | Richmond Chevron |
| Incident Date: | 06/19/2016 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Flairing event |
| Quantity Released: | N/A |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | RP States, "Tkn plant is being depressuered for flair event. no other actions expected to happen." Per NRC Report," CALLER IS REPORTING A FIRE AT THE CHEVRON REFINERY THAT IS RELEASING |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

BLACK SMOKE INTO THE AIR."

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-6960 |
| OES notification: | 11/24/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 11/24/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states the 20 plant "hydrogen recovery" is releasing to flare due to a malfunctioning valve. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-1377 |
| OES notification: | 03/05/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 3/5/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A loss of steam to their diesel hydro treater and jet hydro treater was cause of release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-1639 |
| OES notification: | 03/13/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/13/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance is being released due to pump failure in the hydrogen train. Units are being shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3359 |
| OES notification: | 06/19/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/19/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Planned Maintenance, will last 2 hours, will call back with RQ's. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-1452 |
| OES notification: | 03/29/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 3/28/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Believe to have triggered a release of SO2 due to instrumentation problems with a wet gas compressor problem. Not known if a release occured Not reported |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-4639 |
| OES notification: | 10/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 10/10/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | sulfur dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 30 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A recovery unit went down causing the use of scrubber. Aprox 30 personnel evacuated from area of recovery unit to another part of the plant. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0063 |
| OES notification: | 01/03/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 1/3/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential Release. Flaring will be due to Shutting down Number four rentaformer This is for maintenance |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 0884 |
| OES notification: | Not reported |
| OES Date: | 11/8/1993 |
| OES Time: | 10:06:00 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | YES |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | repairs being made to pipe. |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | VAPOR |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1993 |
| Agency: | chevron |
| Incident Date: | 11/8/93 2105 |
| Admin Agency: | Not reported |
| Amount: | unknown unknown |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | so2 so3 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | 4 inch pipe dropped causing substance to go into |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

atmosphere. no odor or problem at plant.repairs be made. confined to on site plant.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 07967 |
| OES notification: | Not reported |
| OES Date: | 4/22/1995 |
| OES Time: | 06:07:10 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | YES |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | CHEVRON |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | PETROLEUM |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1995 |
| Agency: | RICHMOND REFINERY |
| Incident Date: | 1715 4/22/95 |
| Admin Agency: | Not reported |
| Amount: | 2-5 BBLS |
| Contained: | NO |
| Site Type: | REF |
| E Date: | Not reported |
| Substance: | DIESEL |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | SUN PRESSURE RELIEF ON OUT OF PRESSURE LINE |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-5833 |
| OES notification: | 10/29/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/29/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfer Dioxide (SO2) |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Shutting down a unit due to a small fire, affected process unit caused some flaring that caused the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-4023 |
| OES notification: | 08/09/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 8/9/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Not reported |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost hydrogen recycle compressor and the unit has been shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 0-6167 |
| OES notification: | 12/27/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None required |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 12/27/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Description: | K400 at the TKC unit tripped offline and during restart there was a release from the flare |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-1431 |
| OES notification: | 03/02/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 3/2/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The material released from the flare due to a unit shut down for maintenance operations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-5767 |
| OES notification: | 12/06/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 12/6/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A possible reportable quality of SO2 and NO to flare due to loss of a compressor. |
| Name: | Not reported |
| Address: | 841 CHEVRON |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 08-8606 |
| OES notification: | 12/02/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 0830 |
| Year: | 2008 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 12/1/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Tar and Asphalt |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Dug a hole 10 feet deep for a catch basin for the sewer system. They found 4 drums filled with tar and asphalt that had leaked an unknown amount to the ground. The substance did hit the water table, however, the water table is contained in the ground water protection system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-3102 |
| OES notification: | 06/17/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 6/17/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydro Carbon (Cutter) |
| BBLS: | 1 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance appears to be coming from a pipe sleeve in a bermed area under a road in the refinery compound. It's unknown if soil is effected at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6257 |
| OES notification: | 10/28/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/28/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | possible SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible release due to pulling PRDs (safety devices) that are not seating properly. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-0034 |
| OES notification: | 01/02/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 1/2/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Scheduled maintenance, that may cause a possible RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-5098 |
| OES notification: | 08/25/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Refinery |
| Incident Date: | 8/25/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential release due to a flaring event. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 4-7283 |
| OES notification: | 12/18/2014 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 1830 |
| Year: | 2014 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 12/18/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | De-asphalting Plant material |
| Quantity Released: | Unk |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Unknown |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Plant upset is resulting in flaring activity in the North Yard, material is combusting and venting directly into the atmosphere, RP is handling containment and no clean up required. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-1079 |
| OES notification: | 02/18/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | N/A |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chervron |
| Incident Date: | 2/18/2007 12:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Restarting FCC unit which is resulting in flare activity which will go on for some time and may result in reportable quantities of Sulpher Dioxide and Nitrious Oxide. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 5-1900 |
| OES notification: | 03/27/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Richmond Refinery |
| Incident Date: | 3/27/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | R/P advised they are starting up one of their startup units and they overpressured a vessel so they relieved the pressure to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-1754 |
| OES notification: | 03/20/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 3/19/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible release due to start up of the poly plant. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94806 |
| OES Incident Number: | 0-2068 |
| OES notification: | 05/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 5/10/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Depressurizing R25 to reactor system |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 0-2071 |
| OES notification: | 05/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 5/10/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Aviation Gasoline |
| BBLS: | 10 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Hit a line rupture on the #32 gas line |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3065 |
| OES notification: | 06/04/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/4/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Loss of compressor 3950 and it is causing a release to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2655 |
| OES notification: | 05/08/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/8/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous OxideSulphur Dioxide |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Hot temperatures causes the plant to pressure up causing substances to go to flare. Unknown if its a reportable quantity at this time. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2656 |
| OES notification: | 05/08/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/8/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide |
| Unknown: | Unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Co-generation stacks are pluming. Possibly fuel gas related but still under investigation. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-1130 |
| OES notification: | 02/24/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 2/24/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulfur DioxideNitrogen OxideHydrogen Sulfide |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | 4. Sulfuric acid, unk. amount, measure in Lbs. Vapor, Potential reportable, will update 5. Nitrogen Dioxide, unk. amount, measure in Lbs. Vapor, Potential reportable, will update. Due to electrical failure, have lost flare gas recovery system, evennt is in process at time of call, Caller to update report with amounts. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 0-3292 |
| OES notification: | 07/24/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 7/24/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Recovered Oil |
| BBLS: | 50 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A transfer line to a flow separator flow splitter leaked. Fifty Bbls of oil were spilled within the refinery. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 7-4603 |
| OES notification: | 11/19/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | CHEVRON |
| Incident Date: | 11/19/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | HEAVY HYDROCARBON |
| BBLS: | 20 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Description: | DISCOVERED TODAY, APPEARS SEWER SYSTEM BACKED UP CAUSING THE SPILL. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-3639 |
| OES notification: | 08/14/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 8/14/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released thru the flare systeml, routine procedure. It will be contained within another hour or two - they will slightly exceed their reporting limit. Clean-up and a slow purge began around 0630 this morning. This is thru the release system. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-3283 |
| OES notification: | 06/14/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 6/14/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The release is due to maint. on a pressure safety valve on B1320 Valve # 13401. Will call back if any reportable RQ's. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 8-0327 |
| OES notification: | 01/25/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron Refinery |
| Incident Date: | 1/24/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 & SO3 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A sour gas leak from a sour gas treatment plant to the safety flare which caused release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6732 |
| OES notification: | 11/20/2001 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 11/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX;SO2;; |
| Pounds: | 200 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is an on going event under Cercla section 103 For TKN/ ISO reactor maintenance shut down work. This is be vented from the North ISO/MAX |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6166 |
| OES notification: | 10/24/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 10/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitic Oxide |
| Gallons: | 0.000000 |
| Pounds: | 162 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT : Emmissions from refinery flares due to refinery upset. |
| Name: | Not reported |
| Address: | 841 CHEVRON |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-0874 |
| OES notification: | 02/23/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 2/23/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Recovered Oil |
| BBLS: | 10 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Elbow in pipe leaking. Came in contact with the dirt on facility and recovered. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 2-2534 |
| OES notification: | 05/10/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 5/10/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A level controller was being back flushed and the system was over pressured causing a release to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-0145 |
| OES notification: | 01/09/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Refinery |
| Incident Date: | 1/9/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | sulfuric acid |
| Pounds: | 1 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Line leak due to a gasket or a pinhole leak in a line. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-2147 |
| OES notification: | 04/10/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Refinery |
| Incident Date: | 4/10/2006 12:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | No Flaring |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | We are getting ready to shut down K3950 for maintanence. Anticipated multiple day flairng for approximately 3 days, anticipated emission above statistically significant the continuously release report. Refinery report #023634. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-1075 |
| OES notification: | 02/19/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond |
| Incident Date: | 2/19/2006 12:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO/SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential release, Caller advised that flaring is occurring and could result in reaching reportable quantities. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 10-1492 |
| OES notification: | 03/02/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 45 |
| Year: | 2010 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/2/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Possible release of NOX and SO2 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost a process plants with minor flare activity. It is unknown if there was any release to the atmosphere, tests are being done now and RP will |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

advise us of any updates.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 1-0899 |
| OES notification: | 02/12/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 2/12/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO2NOSO2 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Potential RQ, unit upset caused flaring. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-0779 |
| OES notification: | 02/10/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency: | Chevron Refinery |
| Incident Date: | 2/10/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen Sulfide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This is a potential release of the reportable quantity, event is in progress, an unresolved, RP will update with amounts later. |
| Name: | Not reported |
| Address: | 841 CHEVRON WY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 15-1603 |
| OES notification: | 03/20/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 215 |
| Year: | 2015 |
| Agency: | Chevron Refinery |
| Incident Date: | 03/20/2015 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Quantity Released: | Unk |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Malfunction during start up caused the release, material is combusting and venting directly into the atmosphere, RP is handling the containment and no clean up required. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2682 |
| OES notification: | 05/19/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 5/19/200212:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2S |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP advises during routing maintenance, they will be shutting down the K600 compressor, they are expecting flare activity for the next two to three hours starting at 2100 hours. This is routine maintenance, no impact to the community is expected. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2689 |
| OES notification: | 05/20/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | NRC |
| Incident Date: | 5/20/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen Sulfide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Via NRC report, lost K1900 in RLOP GRU resulting in a release from the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 10-3308 |
| OES notification: | 05/30/2010 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 345 |
| Year: | 2010 |
| Agency: | Chevron |
| Incident Date: | 5/30/2010 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states there was a flaring event at the refinery causing the vapor release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-3746 |
| OES notification: | 06/23/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n/a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond |
| Incident Date: | 6/23/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrogen |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Unit K400 shut down due to a high level in their knock out pot and caused visible smoke through the stack. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6961 |
| OES notification: | 12/02/2001 |
| OES Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 12/2/200112:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO;SO2;; |
| Unknown: | UNK |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A K3950 gas recovery unit shut down for unknown reason causing the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 06557 |
| OES notification: | Not reported |
| OES Date: | 2/1/1995 |
| OES Time: | 03:03:13 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | NO |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | not appropriate |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1995 |
| Agency: | chevron refinery |
| Incident Date: | 2/1/95 1322 |
| Admin Agency: | Not reported |
| Amount: | unknown being calculated |
| Contained: | NO |
| Site Type: | Not reported |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | h2s or so2 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | NO |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | uncombusted due to flare - equipment failure |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2352 |
| OES notification: | 04/23/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 4/23/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO, SO2 |
| Unknown: | unk |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The flare gas recovery machine will be down for maintenance at 8 AM today. During the maintenance gases will be going to the flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-8025 |
| OES notification: | 12/31/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 12/31/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Sulphur Dioxide (SO2) |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states substance is being released to LSFO flare from the overhead compressors intermittently. Caller states this is a potential RQ excedence. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 17-1567 |
| OES notification: | 02/21/2017 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 336 |
| Year: | 2017 |
| Agency: | Chevron Refinery |
| Incident Date: | 02/21/2017 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Hydrogen |
| Quantity Released: | N/A |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller stated that their continues release of Hydrogen has ignited due to atmospheric conditions resulting in a continues flame from the Hydrogen vent, the release of Hydrogen from the refinery is standard and continuous, their are no expected impacts to the environment or community. The release is unrecoverable and is currently unknown when the flame will subside and return to normal operations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-5646 |
| OES notification: | 09/28/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 9/28/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | POTENTIAL RQ for NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller advised that the plant lost the wet gas compressor causing visible flaring |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6092 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 5/15/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Pounds: | 2725 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT Per NRC report: Emissions from refinery flares due to refinery upset. This is a past release reported pursuant to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6093 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 5/31/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Pounds: | 107 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Comments: | Not reported |
| Description: | ** Historical Report ** Via NRC report, emissions from refinery flares due to refinery upset. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6094 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 9/12/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 91 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT Per NRC report: Emissions from refinery flares due to refinery upset. This is a past release reported to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6095 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 9/20/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Pounds: | 98 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT Per NRC:Emissions from refinery flares due to refinery upset. This is a past release reported pursuant to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-5211 |
| OES notification: | 09/13/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N\\A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Richmond |
| Incident Date: | 9/13/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX/SOX |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Taking number 4 Rheniformer down for maintenance. Just opening a ticket now and will call with updates when they have a measure from any flares. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 08-8796 |
| OES notification: | 12/09/2008 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1530 |
| Year: | 2008 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 12/9/2008 |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Barrel of Grease |
| Quantity Released: | 55 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP states that while during an excavation process a drum of grease was discovered in the ground. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-5731 |
| OES notification: | 10/10/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 10/10/200112:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | Nitric OxideSulfur Dioxide |
| Unknown: | Unknown |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Pressure relief devise popped, Causing Flare activity. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 3-3295 |
| OES notification: | 06/29/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron Refinery |
| Incident Date: | 6/29/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Ammonia & H2S |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A pinhole leak in a piping elbow caused the release, they are installing temporary piping until the leak is isolated. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 17-3213 |
| OES notification: | 05/03/2017 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 1610 |
| Year: | 2017 |
| Agency: | Chevron |
| Incident Date: | 05/03/2017 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Sulfur Dioxide, SO2, vapor |
| Quantity Released: | unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | ***Potential Release*** Caller stated an equipment malfunction in a hydroprocessing unit caused the potential reportable quantity of sulfur dioxide, material is unrecoverable, no clean up or containment required. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94802-0627 |
| OES Incident Number: | 0-3906 |
| OES notification: | 08/29/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Richmond Refinery/Chevron |
| Incident Date: | 8/29/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | light ends |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A small leak off the C90, may not be reportable quantity, they are determind amount now. The unit is being shut down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-7272 |
| OES notification: | 11/25/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | San Francisco Bay |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron-Richmond |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 11/25/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydraulic Oil |
| Gallons: | 0.000000 |
| Ounces: | 2 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A leaking fitting caused the spill. The fitting has been repaired and the hydraulic oil was recovered with absorbent pads |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-2011 |
| OES notification: | 03/30/2007 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2007 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 3/30/2007 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | S02, Sulfur Dioxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Minor flaring during unit start up. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 12-5949 |
| OES notification: | 10/02/2012 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | San Francisco Bay |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Unknown |
| Other: | Not reported |
| Date/Time: | 1520 |
| Year: | 2012 |
| Agency: | Chevron Refinery |
| Incident Date: | 10/2/2012 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | San Francisco Bay |
| E Date: | Not reported |
| Substance: | Orphan Sheen |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller states an Orphan Sheen has been boomed next to the long wharf on the north side next to shore.. Caller states the sheen is 10 Ft X 20 Ft caller states substance is dissipating once it |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

reaches the surface. Caller states the source is unknown and they are currently investigating.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-4096 |
| OES notification: | 07/11/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | NRC |
| Incident Date: | 7/11/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per NRC report: "Caller is reporting a material relase from a flare stack due to a loss of an air compressor (K20600). Caller does not know what cause the loss of the air compressor at this time. The release is still ongoing." REMEDIAL ACTIONS: "Made emergency moves to minimize the flaring." |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-3634 |
| OES notification: | 07/03/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 7/3/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Pounds: | 6 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring that is incidental to normal operations. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-5368 |
| OES notification: | 10/03/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/1/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide (NO) |
| Gallons: | 0.000000 |
| Pounds: | 17.8 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released due to heat exchanger developed a leak causing unit to be shut down, which resulted in flaring.. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-6422 |
| OES notification: | 11/06/2001 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron - Texaco |
| Incident Date: | 11/6/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | nitric oxide;sulfur dioxide;; |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring event, lost compressor K500 at the isomax. Will call back with calculations. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-4029 |
| OES notification: | 07/08/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 7/8/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The caller is reporting a potential release caused by the heat of the day. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-1401 |
| OES notification: | 03/06/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond |
| Incident Date: | 3/6/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO & SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Starting up Naptha Hydro Treatment Plant and having some flaring. Believe possibility of hitting RQ for NO and SO2 |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 1-5918 |
| OES notification: | 10/05/2011 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 1145 |
| Year: | 2011 |
| Agency: | Chevron |
| Incident Date: | 10/5/2011 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Hydrogen Cyanide (HCN) |
| Quantity Released: | 17.5 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | RP reports this event was discovered today, exact start date and time is unknown. The release is formed as part of the FCC refining process. This will be a continuos release until further notice. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-4331 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES notification: | 07/22/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Rel to the air |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 7/22/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2/NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A small flaring due to loss of a compressor. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 8-0882 |
| OES notification: | 02/20/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None Required |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 2/20/199812:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Compressor shut down during start up and caused the H2SO2 to be routed to a flair. Number of citizen odor complaints. Possibly over the RQ |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 8-2067 |
| OES notification: | 05/02/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron |
| Incident Date: | 5/1/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Cutter oil |
| BBLS: | 5 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Bleader valveleft open in containment vessel.<br>Clean-up in progress |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 8-0540 |
| OES notification: | 02/05/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1998 |
| Agency: | Chevron - Richmond |
| Incident Date: | 2/5/199812:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Diesel |
| BBLS: | 50 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | 10 inch line filled with product and there was a flange leak |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Incident Number: | 0-5280 |
| OES notification: | 11/10/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Unknown |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Combustion |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery-Richmond |
| Incident Date: | 11/11/200012:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Pounds: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Routine shut down and cleaning of lube oil crackers, potential to leak the minimum 10 lbs. Expected to have the oil crackers back in working order before the minimal 10 lbs leaks the Nitrogen Oxide. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 8-2781 |
| OES notification: | 06/17/1998 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 1998 |
| Agency: | Chevron-Richmond Refinery |
| Incident Date: | 6/17/199812:00:00 AM |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | fuel oil |
| BBLS: | 2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A hole in the line caused the release. The release has been stopped. Possibly impacted the ground water, testing in progress. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-6089 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 5/21/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Pounds: | 48 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT: Per fax from the NRC: Emissions from refinery flares due to refinery upset. This is a past release reported pursuant to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-6090 |
| OES notification: | 10/21/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | NRC |
| Incident Date: | 6/22/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Pounds: | 18 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | HISTORICAL REPORT: Per NRC report: Emissions from refinery flares due to refinery upset. This is a past release reported pursuant to consent decree. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 6-1546 |
| OES notification: | 03/14/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | None |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 3/14/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | Potential release of Sulfur Dioxide |
| Gallons: | 0.000000 |
| Pounds: | 500 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Flaring due to a loss of steam may have allowed the release of the above substances. A sample is being evaluated at time of this call. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 4-6729 |
| OES notification: | 11/25/2014 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Refinery |
| Cleanup By: | No |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 930 |
| Year: | 2014 |
| Agency: | Chevron Refinery |
| Incident Date: | 11/25/2014 |
| Admin Agency: | Not reported |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | SO2 & NO |
| Quantity Released: | UNK |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Over-Pressure |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | Other |
| Fatals: | No |
| Comments: | Not reported |
| Description: | Caller is reporting a flaring event at the refinery. The release is associated with the start up of the SDA unit. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 7-0782 |
| OES notification: | 02/23/1997 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | not possible |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1997 |
| Agency: | Chevron |
| Incident Date: | 2/23/199712:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Hydrcarbon |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | while performing maintenance there was a small flange fire |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-1509 |
| OES notification: | 03/12/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Dissipates |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 3/12/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | During flaring Nitrous Oxide vapor was released. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-0987 |
| OES notification: | 02/17/2011 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Lbs. |
| Other: | Not reported |
| Date/Time: | 1830 |
| Year: | 2011 |
| Agency: | Chevron |
| Incident Date: | 2/17/2011 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | SOX |
| Quantity Released: | UNK |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A unplanned flaring event caused this release. The flaring event is now contained. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 3-4769 |
| OES notification: | 09/15/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |
| Incident Date: | 9/15/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A loss of feed pump to NHT plant caused a possible release that exceeded RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-5893 |
| OES notification: | 12/12/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron |
| Incident Date: | 12/12/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance being released to flare, they lost their recycle compressor. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-7066 |
| OES notification: | 12/05/2001 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 11/16/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitric Oxide NO;;; |
| Pounds: | 11 |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Historical: Safety lifted on a vessel causing Flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-2517 |
| OES notification: | 04/27/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 4/27/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A plant upset caused a release to the flare. This release possibly exceeded RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-2514 |
| OES notification: | 04/27/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Refineries |
| Incident Date: | 4/27/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOSO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller advised that for unknown reasons flaring is occurring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 15-2235 |
| OES notification: | 04/21/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Refinery |
| Cleanup By: | Unrecoverable |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | VAPOR |
| Measure: | N/A |
| Other: | Not reported |
| Date/Time: | 1030 |
| Year: | 2015 |
| Agency: | Chevron |
| Incident Date: | 04/21/2015 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Potential Release - Sulfur Dioxide |
| Quantity Released: | Unknown |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | //Potential Release// Caller states the preliminary information known is a loss of a compressor and subsequent plant shutdown for potential reportable quantity of sulfur dioxide.. |
| Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 0-5960 |
| OES notification: | 12/14/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Oil Co. |
| Incident Date: | 12/14/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO/NO2/SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | A flare gas compressor went down causing a possible release exceeding RQ. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 3-4848 |
| OES notification: | 09/18/2003 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Responsible Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | Chevron |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Incident Date: | 9/18/200312:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Pipe Line |
| E Date: | Not reported |
| Substance: | Light Product |
| BBLS: | 3 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | They think the release may be gasoline, its probably a fuel product but unknown for certain. A pipeline within the refinery is leaking. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-2724 |
| OES notification: | 05/11/2001 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2001 |
| Agency: | Chevron |
| Incident Date: | 5/11/200112:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | H2SSO2NO |
| Unknown: | 0.000000 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Mechanical failure on one of the machines causing a release of H2S. Taking the machine down will cause a reportable quantity of SO2 & NO to be released. Quantity is unknown at this time. Will call back with update. |
| Name: | Not reported |
| Address: | 841 CHEVRON WY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 1-1808 |
| OES notification: | 03/23/2011 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | SF Bay |
| Spill Site: | Refinery |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1000 |
| Year: | 2011 |
| Agency: | Chevron Refinery |
| Incident Date: | 3/23/2011 |
| Admin Agency: | Contra Costa County Health Services Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | SF Bay |
| E Date: | Not reported |
| Substance: | Oil - Gas type, lighter than crude |
| Quantity Released: | 24 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |
| Number of Fatalities: | Not reported |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Collection sump overflowed or leaked causing |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

release, material flowed directly into the bay, material is contained by booms, RP is handling clean up.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-0149 |
| OES notification: | 01/08/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Richmond Refinery |
| Incident Date: | 1/8/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Released to the flare due to compressor failure. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 0-2275 |
| OES notification: | 05/23/2000 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2000 |
| Agency: | Chevron Refinery |
| Incident Date: | 5/23/200012:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible reportable quantity on SO2, unkn what quantity may be. They are pressuring up to start unit back up, they had a leak so they are depressuring. Minimum flaring should occur. This is being done in a controlled manner. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-1438 |
| OES notification: | 03/03/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | n\\a |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron |
| Incident Date: | 3/3/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX & SOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Maintenance activity at the FCC unit is what caused the release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 5-1622 |
| OES notification: | 03/12/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 3/12/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrous Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance is being release to flare due to shut down of flare gas recovery unit. This is planned maintenance activity. This is a courtesy notification as RQ hasn't been exceeded. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 5-4147 |
| OES notification: | 07/13/2005 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2005 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 7/13/200512:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Refinery lost 115 KV power that shut down pumps. Report is precautionary. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| OES Incident Number: | 9-4194 |
| OES notification: | 10/01/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 10/1/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Lost K1100 recycle compressor which was down for 5 min. Pressure needed to be released to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-6350 |
| OES notification: | 11/20/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Refinery |
| Incident Date: | 11/20/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | No |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nitrogen Oxide NO |
| Gallons: | 0.000000 |
| Pounds: | 11.5 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Substance was released through the LSFO Flare system. Due to K3950 being shut down. Note: This is an intermittent ongoing release. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-1499 |
| OES notification: | 03/11/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 3/11/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NOX |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release due to emergency shutdown on hydrogen train causing flaring. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| OES Incident Number: | 6-4471 |
| OES notification: | 07/27/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | N/A |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron |
| Incident Date: | 7/27/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Substance: | Nitric Oxide |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | This ongoing release is due to machine K3950 broke down. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-0613 |
| OES notification: | 01/31/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 1/31/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | NO |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | An upset of a sulphur recovery unit and shut down caused a release to flare. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-0767 |
| OES notification: | 02/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | Castro Creek/San Pablo Bay |
| Spill Site: | Not reported |
| Cleanup By: | Unknown |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Oil Richmond |
| Incident Date: | 2/3/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Unknown |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Contaminated Water |
| BBLS: | 1 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | R/P was cleaning out the Caustic plant with fresh water, it was contaminated in the plant with oils and petroleum products, the contaminated water was then flushed down the drain. Contaminants contained High-Benzine/Caustic. Caller says he refuses too turn valve back on, this has been ongoing for about 5 days. Also, states that there were NO samples taken, but procedures state that samples should have be taken. Caller was in contact with their own water treatment facility |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

of all of this and thefacility had no idea this was going on, says they are usually notified when something like this happens so they can prepare, and notify state agencies. Caller stated that his job will probably be in jeopardy for stopping the operation and reporting this against supervisors wishes, but found no samples were taken and knew this HAD to be reported. Also said that this was reported to the Water prevention hotline, and so far nothing has been done, operation was still ongoing.

| | |
|---|---|
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| OES Incident Number: | 2-0768 |
| OES notification: | 02/08/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron Oil Richmond |
| Incident Date: | 2/8/200212:00:00 AM |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Cutter Diesel |
| BBLS: | 10 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Release came from a flange leak on a line. |
| | |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 2-2471 |
| OES notification: | 05/06/2002 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | none necessary |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2002 |
| Agency: | Chevron |
| Incident Date: | 5/6/200212:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | SO2 |
| Gallons: | 0.000000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Possible release of a reportable quantity of SO2. They are conducting an investigation. The release occurred while they were putting a new flare in service. |
| Name: | Not reported |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| OES Incident Number: | 6-0465 |
| OES notification: | 01/19/2006 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Not reported |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2006 |
| Agency: | Chevron Richmond Refinery |
| Incident Date: | 1/18/2006 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Refinery |
| E Date: | Not reported |
| Substance: | Nox |
| Gallons: | 0.000000 |
| Pounds: | 20 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Caller advised flaring emissions from shut down activities in the DNR area caused release. |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

LDS:

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - LAND DISPOSAL AREAS |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Global Id: | L10007637786 |
| Latitude: | 37.93029 |
| Longitude: | -122.3887 |
| Case Type: | Land Disposal Site |
| Status: | Open - Verification Monitoring |
| Status Date: | 10/29/2009 |
| Lead Agency: | SAN FRANCISCO BAY RWQCB (REGION 2) |
| Caseworker: | ADF |
| Local Agency: | Not reported |
| RB Case Number: | 2 071044002 |
| LOC Case Number: | Not reported |
| File Location: | Regional Board |
| Potential Media Affect: | Other Groundwater (uses other than drinking water), Soil, Surface water |
| EDR Link ID: | L10007637786 |
| Potential Contaminants of Concern: | Benzene, Chlordane, Other Insecticides / Pesticide / Fumigants / Herbicides, Arsenic, Chromium, Lead, Mercury (elemental), Nickel, Other Metal, Diesel, MTBE / TBA / Other Fuel Oxygenates, Gasoline, Polynuclear aromatic hydrocarbons (PAHs) |
| Site History: | See Geotracker Global ID # SL18236654 for more information about the Chevron Richmond Refinery and see ECM and Fortis for more documents. According to Order No. 00-043: "Closed waste management units (Plant 1/Additives Plant, Landfill 15, Landfarms 1-5, the Hydropits, Parr-Richmond Landfill and the Gertrude Street Site) shall be inspected annually by a registered California engineer or geologist prior to the onset of the rainy season. These annual inspections shall include identification of areas of the final covers where the soil has become eroded, attacked by rodents, or otherwise damaged, or where the paved areas have become damaged. Chevron shall perform appropriate repairs for these areas prior to the rainy season. In addition, Chevron shall monitor runoff/run-on control facilities for their effectiveness and overall condition as needed according to weather conditions during the winter months (November through April) and as prescribed in the approved post-closure maintenance/monitoring plan for each individual unit. Chevron shall maintain records of all inspections and repairs and summarize in each semi-annual monitoring report any repairs made during the corresponding reporting period." |

Click here to access the California GeoTracker records for this facility:

CORTESE:

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | Not reported |
| Site/Facility Type: | Not reported |
| Cleanup Status: | Not reported |
| Status Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: CORTESE
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Cease Desist Orders & Cleanup Abatement Orders

Name: CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Region: CORTESE
Envirostor Id: Not reported
Global ID: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: CORTESE
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Cease Desist Orders & Cleanup Abatement Orders

Name: CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Region: CORTESE
Envirostor Id: Not reported
Global ID: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: CORTESE

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Cease Desist Orders & Cleanup Abatement Orders |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | Not reported |
| Site/Facility Type: | Not reported |
| Cleanup Status: | Not reported |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | CORTESE |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Cease Desist Orders & Cleanup Abatement Orders |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | Not reported |
| Site/Facility Type: | Not reported |
| Cleanup Status: | Not reported |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | CORTESE |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

File Name: Cease Desist Orders & Cleanup Abatement Orders

Name: CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Region: CORTESE
Envirostor Id: Not reported
Global ID: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: CORTESE
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Cease Desist Orders & Cleanup Abatement Orders

EMI:

Name: CHEVRON USA, INC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 1987
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 5184
Reactive Organic Gases Tons/Yr: 3915
Carbon Monoxide Emissions Tons/Yr: 1168
NOX - Oxides of Nitrogen Tons/Yr: 5440
SOX - Oxides of Sulphur Tons/Yr: 2298
Particulate Matter Tons/Yr: 510
Part. Matter 10 Micrometers and Smllr Tons/Yr: 402

Name: CHEVRON USA, INC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 1990
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 3950 |
| Reactive Organic Gases Tons/Yr: | 3120 |
| Carbon Monoxide Emissions Tons/Yr: | 1188 |
| NOX - Oxides of Nitrogen Tons/Yr: | 4734 |
| SOX - Oxides of Sulphur Tons/Yr: | 1291 |
| Particulate Matter Tons/Yr: | 349 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 281 |

| | |
|---|---|
| Name: | CHEVRON USA, INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 1993 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 4176 |
| Reactive Organic Gases Tons/Yr: | 3266 |
| Carbon Monoxide Emissions Tons/Yr: | 612 |
| NOX - Oxides of Nitrogen Tons/Yr: | 4637 |
| SOX - Oxides of Sulphur Tons/Yr: | 1436 |
| Particulate Matter Tons/Yr: | 262 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 229 |

| | |
|---|---|
| Name: | CHEVRON INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 1995 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 3784 |
| Reactive Organic Gases Tons/Yr: | 2895 |
| Carbon Monoxide Emissions Tons/Yr: | 495 |
| NOX - Oxides of Nitrogen Tons/Yr: | 3612 |
| SOX - Oxides of Sulphur Tons/Yr: | 1018 |
| Particulate Matter Tons/Yr: | 271 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 232 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 1996 |
| County Code: | 7 |
| Air Basin: | SF |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3784
Reactive Organic Gases Tons/Yr: 2895
Carbon Monoxide Emissions Tons/Yr: 495
NOX - Oxides of Nitrogen Tons/Yr: 3612
SOX - Oxides of Sulphur Tons/Yr: 1018
Particulate Matter Tons/Yr: 271
Part. Matter 10 Micrometers and Smllr Tons/Yr: 232

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 1997
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2763
Reactive Organic Gases Tons/Yr: 2234
Carbon Monoxide Emissions Tons/Yr: 538
NOX - Oxides of Nitrogen Tons/Yr: 3630
SOX - Oxides of Sulphur Tons/Yr: 1299
Particulate Matter Tons/Yr: 264
Part. Matter 10 Micrometers and Smllr Tons/Yr: 227

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 1998
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3097
Reactive Organic Gases Tons/Yr: 2405
Carbon Monoxide Emissions Tons/Yr: 502
NOX - Oxides of Nitrogen Tons/Yr: 3013
SOX - Oxides of Sulphur Tons/Yr: 1413
Particulate Matter Tons/Yr: 243
Part. Matter 10 Micrometers and Smllr Tons/Yr: 204

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Year: | 1999 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 5005 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 3383 |
| Reactive Organic Gases Tons/Yr: | 2561 |
| Carbon Monoxide Emissions Tons/Yr: | 475 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2692 |
| SOX - Oxides of Sulphur Tons/Yr: | 1558 |
| Particulate Matter Tons/Yr: | 215 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 182 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2000 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 5005 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 3097 |
| Reactive Organic Gases Tons/Yr: | 2451 |
| Carbon Monoxide Emissions Tons/Yr: | 455 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2627 |
| SOX - Oxides of Sulphur Tons/Yr: | 1247 |
| Particulate Matter Tons/Yr: | 214 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 181 |

| | |
|---|---|
| Name: | CHEVRON U.S.A. INC. |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2001 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Y |
| Consolidated Emission Reporting Rule: | A |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1849 |
| Reactive Organic Gases Tons/Yr: | 1384 |
| Carbon Monoxide Emissions Tons/Yr: | 535 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2134 |
| SOX - Oxides of Sulphur Tons/Yr: | 1839 |
| Particulate Matter Tons/Yr: | 245 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 202 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | ENVENT CORPORATION |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2002 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 13295 |
| Air District Name: | BA |
| SIC Code: | 1389 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2002 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 2179 |
| Reactive Organic Gases Tons/Yr: | 1734 |
| Carbon Monoxide Emissions Tons/Yr: | 486 |
| NOX - Oxides of Nitrogen Tons/Yr: | 1359 |
| SOX - Oxides of Sulphur Tons/Yr: | 1802 |
| Particulate Matter Tons/Yr: | 226 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 188 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2003 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 15230 |
| Air District Name: | BA |
| SIC Code: | 8711 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 2003
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1751
Reactive Organic Gases Tons/Yr: 1482
Carbon Monoxide Emissions Tons/Yr: 572
NOX - Oxides of Nitrogen Tons/Yr: 892
SOX - Oxides of Sulphur Tons/Yr: 1918
Particulate Matter Tons/Yr: 256
Part. Matter 10 Micrometers and Smllr Tons/Yr: 214

Name: ENVENT CORPORATION
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 2003
County Code: 7
Air Basin: SF
Facility ID: 13295
Air District Name: BA
SIC Code: 1389
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: PETROCHEMICAL SERVICES INC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA
Year: 2004
County Code: 7
Air Basin: SF
Facility ID: 15230
Air District Name: BA
SIC Code: 8711
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.016
Reactive Organic Gases Tons/Yr: 0.0135552

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | ENVENT CORPORATION |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2004 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 13295 |
| Air District Name: | BA |
| SIC Code: | 1389 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.03 |
| Reactive Organic Gases Tons/Yr: | 0.020958 |
| Carbon Monoxide Emissions Tons/Yr: | 0.09 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0.44 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0.013 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0.0127725 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2004 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1482.595 |
| Reactive Organic Gases Tons/Yr: | 1311.096572 |
| Carbon Monoxide Emissions Tons/Yr: | 632.671 |
| NOX - Oxides of Nitrogen Tons/Yr: | 1070.196 |
| SOX - Oxides of Sulphur Tons/Yr: | 2023.49 |
| Particulate Matter Tons/Yr: | 285.925 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 240.432076 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2005 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 15230 |
| Air District Name: | BA |
| SIC Code: | 8711 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | .016 |
| Reactive Organic Gases Tons/Yr: | .0135552 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2005 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1898.036 |
| Reactive Organic Gases Tons/Yr: | 1750.4632795 |
| Carbon Monoxide Emissions Tons/Yr: | 562.86 |
| NOX - Oxides of Nitrogen Tons/Yr: | 1160.16 |
| SOX - Oxides of Sulphur Tons/Yr: | 1499.801 |
| Particulate Matter Tons/Yr: | 248.321 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 212.7866385 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2006 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1350.201 |
| Reactive Organic Gases Tons/Yr: | 1151.5662427 |
| Carbon Monoxide Emissions Tons/Yr: | 592.57 |
| NOX - Oxides of Nitrogen Tons/Yr: | 959.916 |
| SOX - Oxides of Sulphur Tons/Yr: | 1870.693 |
| Particulate Matter Tons/Yr: | 270.709 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 224.836848 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA |
| Year: | 2006 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 15230 |
| Air District Name: | BA |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| SIC Code: | 8711 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | .032 |
| Reactive Organic Gases Tons/Yr: | .0271104 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 90058 |
| Year: | 2007 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 15230 |
| Air District Name: | BA |
| SIC Code: | 8711 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94523 |
| Year: | 2007 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1250.834 |
| Reactive Organic Gases Tons/Yr: | 1125.8760067 |
| Carbon Monoxide Emissions Tons/Yr: | 565.315 |
| NOX - Oxides of Nitrogen Tons/Yr: | 878.673 |
| SOX - Oxides of Sulphur Tons/Yr: | 1770.579 |
| Particulate Matter Tons/Yr: | 256.402 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 211.2272075 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2008 |
| County Code: | 7 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1237.201 |
| Reactive Organic Gases Tons/Yr: | 1046.0415496 |
| Carbon Monoxide Emissions Tons/Yr: | 546.529 |
| NOX - Oxides of Nitrogen Tons/Yr: | 826.046 |
| SOX - Oxides of Sulphur Tons/Yr: | 1696.705 |
| Particulate Matter Tons/Yr: | 252.417 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 209.120268 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2008 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 15230 |
| Air District Name: | BA |
| SIC Code: | 8711 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES, INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2009 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 18909 |
| Air District Name: | BA |
| SIC Code: | 2865 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2009 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1042.1949999999999 |
| Reactive Organic Gases Tons/Yr: | 835.55033289999994 |
| Carbon Monoxide Emissions Tons/Yr: | 374.553 |
| NOX - Oxides of Nitrogen Tons/Yr: | 867.25199999999995 |
| SOX - Oxides of Sulphur Tons/Yr: | 470.44299999999998 |
| Particulate Matter Tons/Yr: | 510.335813366997 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 496.67985599999997 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2010 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1171.8679999999999 |
| Reactive Organic Gases Tons/Yr: | 932.54078749999996 |
| Carbon Monoxide Emissions Tons/Yr: | 382.91000000000003 |
| NOX - Oxides of Nitrogen Tons/Yr: | 835.37800000000004 |
| SOX - Oxides of Sulphur Tons/Yr: | 367.30500000000001 |
| Particulate Matter Tons/Yr: | 468.401018823897 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 454.91131999999999 |

| | |
|---|---|
| Name: | PETROCHEMICAL SERVICES, INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2010 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 18909 |
| Air District Name: | BA |
| SIC Code: | 2865 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2011 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1485.401 |
| Reactive Organic Gases Tons/Yr: | 1246.6026152 |
| Carbon Monoxide Emissions Tons/Yr: | 417.507 |
| NOX - Oxides of Nitrogen Tons/Yr: | 876.718 |
| SOX - Oxides of Sulphur Tons/Yr: | 374.095 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CLEAN HARBORS INDUSTRIAL SERVI |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Year: | 2011 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 21433 |
| Air District Name: | BA |
| SIC Code: | 1382 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.332 |
| Reactive Organic Gases Tons/Yr: | 0.2814544 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2012 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1485.401 |
| Reactive Organic Gases Tons/Yr: | 1244.5167296 |
| Carbon Monoxide Emissions Tons/Yr: | 417.507 |
| NOX - Oxides of Nitrogen Tons/Yr: | 876.718 |
| SOX - Oxides of Sulphur Tons/Yr: | 374.095 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Particulate Matter Tons/Yr: 509.16320457
Part. Matter 10 Micrometers and Smllr Tons/Yr: 493.688

Name: CLEAN HARBORS INDUSTRIAL SERVI
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
Year: 2012
County Code: 7
Air Basin: SF
Facility ID: 21433
Air District Name: BA
SIC Code: 1382
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.332
Reactive Organic Gases Tons/Yr: 0.2814544
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Year: 2013
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1448.041
Reactive Organic Gases Tons/Yr: 1162.8251039
Carbon Monoxide Emissions Tons/Yr: 368.582
NOX - Oxides of Nitrogen Tons/Yr: 910.146
SOX - Oxides of Sulphur Tons/Yr: 339.256
Particulate Matter Tons/Yr: 429.56
Part. Matter 10 Micrometers and Smllr Tons/Yr: 428.395

Name: CLEAN HARBORS INDUSTRIAL SERVI
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
Year: 2013
County Code: 7
Air Basin: SF
Facility ID: 21433
Air District Name: BA
SIC Code: 1382
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.245
Reactive Organic Gases Tons/Yr: 0.2110192

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Year: 2014
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: N
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2160.2536624
Reactive Organic Gases Tons/Yr: 1598.6698336
Carbon Monoxide Emissions Tons/Yr: 345.13827574
NOX - Oxides of Nitrogen Tons/Yr: 830.03747949
SOX - Oxides of Sulphur Tons/Yr: 320.47654442
Particulate Matter Tons/Yr: 452.68259184
Part. Matter 10 Micrometers and Smllr Tons/Yr: 451.49708438

Name: CLEAN HARBORS INDUSTRIAL SERVICES, INC
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
Year: 2014
County Code: 7
Air Basin: SF
Facility ID: 21433
Air District Name: BA
SIC Code: 1382
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.201102584
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CHEVRON PRODUCTS COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Year: 2015
County Code: 7
Air Basin: SF
Facility ID: 10
Air District Name: BA
SIC Code: 2911
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1861.2012403 |
| Reactive Organic Gases Tons/Yr: | 1705.0034031 |
| Carbon Monoxide Emissions Tons/Yr: | 379.19502416 |
| NOX - Oxides of Nitrogen Tons/Yr: | 659.93064786 |
| SOX - Oxides of Sulphur Tons/Yr: | 381.17677513 |
| Particulate Matter Tons/Yr: | 632.71103106 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 624.59641123 |

| | |
|---|---|
| Name: | CLEAN HARBORS INDUSTRIAL SERVICES, INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Year: | 2015 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 21433 |
| Air District Name: | BA |
| SIC Code: | 1382 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.168264318 |
| Reactive Organic Gases Tons/Yr: | 0.168264318 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Year: | 2016 |
| County Code: | 7 |
| Air Basin: | SF |
| Facility ID: | 10 |
| Air District Name: | BA |
| SIC Code: | 2911 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1779.0692231 |
| Reactive Organic Gases Tons/Yr: | 1418.062147 |
| Carbon Monoxide Emissions Tons/Yr: | 382.83522008 |
| NOX - Oxides of Nitrogen Tons/Yr: | 770.16639426 |
| SOX - Oxides of Sulphur Tons/Yr: | 352.12811109 |
| Particulate Matter Tons/Yr: | 637.96242083 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 627.95035295 |

ENF:

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 219938 |
| Region: | 2 |
| Order / Resolution Number: | 90-146 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 11/14/1990 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 2 071044002 |
| Description: | SCR-CLUP OF PESTICIDE,TPM & TEL |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 219720 |
| Region: | 2 |
| Order / Resolution Number: | 91-098 |
| Enforcement Action Type: | Cease and Desist Order |
| Effective Date: | 06/19/1991 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 2 071044002 |
| Description: | IMPLEMENTS TPCA, CLOSURE SCHEDULE FOR POLLARD POND AND HYDROLYZING PITS |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 331014 |
| Region: | 2 |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 08/01/2007 |
| Adoption/Issuance Date: | 08/01/2007 |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Notice of Violation |
| Description: | NOV for 31,000 gal. toluene spill to land within refinery's AGT tank farm and secondary confinement area. |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | TANKS |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 383639 |
| Region: | 2 |
| Order / Resolution Number: | R2-2012-0015 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 02/08/2012 |
| Adoption/Issuance Date: | 02/08/2012 |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Title: | CAO R2-2012-0015 |
| Description: | Not reported |
| Program: | SLIC |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | CHEVRON ROD & GUN CLUB |
| Address: | 841 CHEVRON |
| City,State,Zip: | RICHMOND, CA 94802-0272 |
| Region: | 2 |
| Facility Id: | 214260 |
| Agency Name: | Chevron Products Company Richmond |
| Place Type: | Facility |
| Place Subtype: | Not reported |
| Facility Type: | All other facilities |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 7997 |
| SIC Desc 1: | Membership Sports and Recreation Clubs |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | UNREGS |
| Program Category1: | UNREGS |
| Program Category2: | UNREGS |
| # Of Programs: | 1 |
| WDID: | 2 071202N01 |
| Reg Measure Id: | 163019 |
| Reg Measure Type: | Unregulated |
| Region: | 2 |
| Order #: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Never Active |
| Status Date: | 02/21/2013 |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | Not reported |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 223270 |
| Region: | 2 |
| Order / Resolution Number: | 93-128 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 10/20/1993 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 2 071202N01 |
| Description: | SCR-CLUP OF LEAD SHOT. |
| Program: | UNREGS |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 219522 |
| Region: | 2 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Order / Resolution Number: | 92-092 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 08/19/1992 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 2 071044002 |
| Description: | SCR-RICHMOND REFINERY, AALKANE SECTOR. IMPLEMETATION OF ABOVE GROUND PETROLEUM STORAGE ACT. |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 219393 |
| Region: | 2 |
| Order / Resolution Number: | 93-016 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 02/17/1993 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 2 071044002 |
| Description: | SCR-GW CLUP & REMOVAL OF FREE-PHASE HYCRB, AT SP HILL TKFLD, BAYSIDE SECTOR. |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | TANKS |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 349392 |
| Region: | 2 |
| Order / Resolution Number: | R2-2006-0077 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 11/13/2006 |
| Adoption/Issuance Date: | 11/13/2006 |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Castro Cove Sediment Remediation Project |
| Description: | SCR requires Chevron Products Company to clean up sediment containing high levels of PAHs and mercury in Castro Cove adjacent to the Chevron Refinery in Richmond. Sediment dredged from the Cove will be used in a cap for passes 2-5 of the former No. 1 Oxidation Pond within the refinery which is required to complete final closure under order 00-043. |
| Program: | SLIC |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | 2 |
| Facility Id: | 252650 |
| Agency Name: | Not reported |
| Place Type: | Manufacturing |
| Place Subtype: | Petroleum Refinery |
| Facility Type: | Industrial |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.93161 |
| Place Longitude: | -122.39131 |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | NPDESWW |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 222818 |
| Region: | 2 |
| Order / Resolution Number: | 95-100 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 09/13/1995 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 09/23/1995 |
| ACL Issuance Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | ACL 95-100 for Chevron Products Company |
| Description: | ACL- |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | 1995-09-23 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 5000 |
| Initial Assessed Amount: | 5000 |
| Liability $ Amount: | 1000 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 1000 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 5000 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 222680 |
| Region: | 2 |
| Order / Resolution Number: | 96-121 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 09/18/1996 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Active |
| Title: | Enforcement - 2 071007003 |
| Description: | INADEQUATE EROSION MEASURES LED TO ACL. R/P PAYING ACL VIA INSTALL- MENTS. |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | 2 |
| Facility Id: | 252650 |
| Agency Name: | Not reported |
| Place Type: | Manufacturing |
| Place Subtype: | Petroleum Refinery |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Type: | Industrial |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.93161 |
| Place Longitude: | -122.39131 |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | NPDESWW |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 363783 |
| Region: | 2 |
| Order / Resolution Number: | R2-2009-0096 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 02/05/2009 |
| Adoption/Issuance Date: | 02/05/2009 |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Chevron MMP Letter |
| Description: | Not reported |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | 2009-06-19 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 6000 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 6000 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 6000 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 6000 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY - RCRA/LNDISP/TANKS/TPCA/SLIC/LONG WHARF DR |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Region: | 2 |
| Facility Id: | 252651 |
| Agency Name: | Not reported |
| Place Type: | Waste Management Unit |
| Place Subtype: | Land fill |
| Facility Type: | Solid Waste Class I - hazardous wastes |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | Not reported |
| Place Longitude: | Not reported |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | LNDISP |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 220171 |
| Region: | 2 |
| Order / Resolution Number: | 89-011 |
| Enforcement Action Type: | Cease and Desist Order |
| Effective Date: | 01/18/1989 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Enforcement - 2 071044002 |
| Description: | ACTION IS FOR TPCA IMPOUNDMENT (POLLARD POND). REQ RECYCLING FEASIBILITY STUDY & CLOSURE PLAN. |
| Program: | LNDISP |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Total $ Paid/Completed Amount: | 0 |
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | 2 |
| Facility Id: | 252650 |
| Agency Name: | Chevron Products Company Richmond |
| Place Type: | Manufacturing |
| Place Subtype: | Petroleum Refinery |
| Facility Type: | Industrial |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | 37.93161 |
| Place Longitude: | -122.39131 |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 30.6000000 |
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Process waste, NEC |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDINDLRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 2 071044001 |
| Reg Measure Id: | 304951 |
| Reg Measure Type: | NPDES Permits |
| Region: | 2 |
| Order #: | R2-2006-0035 |
| Npdes# CA#: | CA0005134 |
| Major-Minor: | Major |
| Npdes Type: | OTH |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 02/02/2017 |
| Effective Date: | 06/14/2006 |
| Expiration/Review Date: | 06/13/2011 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Termination Date: | 08/31/2011 |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 394012 |
| Region: | 2 |
| Order / Resolution Number: | R2-2014-1007 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 02/21/2014 |
| Adoption/Issuance Date: | 02/21/2014 |
| Achieve Date: | Not reported |
| Termination Date: | 03/28/2014 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | 12/09/2013 |
| Status: | Historical |
| Title: | ACL 02/21/2014 for Chevron Products Company Richmond |
| Description: | MMP |
| Program: | NPDINDLRG |
| Latest Milestone Completion Date: | 2014-03-27 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 3000 |
| Initial Assessed Amount: | 3000 |
| Liability $ Amount: | 3000 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 3000 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 3000 |

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | 2 |
| Facility Id: | 252650 |
| Agency Name: | Chevron Products Company Richmond |
| Place Type: | Manufacturing |
| Place Subtype: | Petroleum Refinery |
| Facility Type: | Industrial |
| Agency Type: | Privately-Owned Business |
| # Of Agencies: | 1 |
| Place Latitude: | 37.93161 |
| Place Longitude: | -122.39131 |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 13 |
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Process waste, NEC |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDESWW |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 2 071044001 |
| Reg Measure Id: | 148417 |
| Reg Measure Type: | NPDES Permits |
| Region: | 2 |
| Order #: | R2-2001-0067 |
| Npdes# CA#: | CA0005134 |
| Major-Minor: | Major |
| Npdes Type: | OTH |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 06/14/2006 |
| Effective Date: | 06/19/2001 |
| Expiration/Review Date: | 06/19/2006 |
| Termination Date: | 06/14/2006 |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 304633 |
| Region: | 2 |
| Order / Resolution Number: | R2-2005-0065 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 12/16/2005 |
| Adoption/Issuance Date: | 12/16/2005 |
| Achieve Date: | Not reported |
| Termination Date: | Not reported |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Enforcment-MMP 05-0065 for CHEVRON PRODUCTS COMPANY |
| Description: | MMP for 4 violations between 12/1/01 and 9/30/05. Total = |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| | $12,000. $12,000 will be for an SEP. Waiver signed. |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | 2007-05-30 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 12000 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 12000 |
| | |
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Region: | 2 |
| Facility Id: | 252650 |
| Agency Name: | Not reported |
| Place Type: | Manufacturing |
| Place Subtype: | Petroleum Refinery |
| Facility Type: | Industrial |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.93161 |
| Place Longitude: | -122.39131 |
| SIC Code 1: | 2911 |
| SIC Desc 1: | Petroleum Refining |
| SIC Code 2: | 2869 |
| SIC Desc 2: | Industrial Organic Chemicals, NEC |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | NPDESWW |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Effective Date: | Not reported |
| Expiration/Review Date: | Not reported |
| Termination Date: | Not reported |
| WDR Review - Amend: | Not reported |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 225578 |
| Region: | 2 |
| Order / Resolution Number: | UNKNOWN |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 06/19/2000 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 06/19/2000 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Enforcement - 2 071044001 |
| Description: | Not reported |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability $ Amount: | 0 |
| Project $ Amount: | 0 |
| Liability $ Paid: | 0 |
| Project $ Completed: | 0 |
| Total $ Paid/Completed Amount: | 0 |

HAZNET:

| | |
|---|---|
| Name: | CHEVRON PIPE LINE COMPANY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Year: | 2017 |
| GEPAID: | CAC002936969 |
| Contact: | SARAH BRAGG-FLAVAN |
| Telephone: | 6616547988 |
| Mailing Name: | Not reported |
| Mailing Address: | 9525 CAMINO MEDIA |
| Mailing City,St,Zip: | BAKERSFIELD, CA 93311 |
| Gen County: | Contra Costa |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

TSD EPA ID: CAD050806850
TSD County: Los Angeles
Tons: 10.5
CA Waste Code: 223-Unspecified oil-containing waste
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

Name: CHEVRON PIPE LINE COMPANY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
Year: 2017
GEPAID: CAC002936969
Contact: SARAH BRAGG-FLAVAN
Telephone: 6616547988
Mailing Name: Not reported
Mailing Address: 9525 CAMINO MEDIA
Mailing City,St,Zip: BAKERSFIELD, CA 93311
Gen County: Contra Costa
TSD EPA ID: CAD050806850
TSD County: Los Angeles
Tons: 10.5
CA Waste Code: 223-Unspecified oil-containing waste
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Contra Costa

ICE:
Envirostor ID: 3000291
Name: CHEVRON USA INC RICHMOND REFINERY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
EPA ID: CAD009114919
Site Type: INSPECTION
Facility Status: No Action

Inspection:
Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/19/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 02/03/2005
Violation Class: Class 2
RTC Date: 04/13/2010

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/02/2005
Violation Class: Class 2
RTC Date: 04/13/2010

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/05/2005
Violation Class: No Violations
RTC Date: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/22/2001
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/25/2000
Violation Class: Class 2
RTC Date: 04/27/2000

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 03/11/2003
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 10/20/2006
Violation Class: Minor
RTC Date: 11/10/2006

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/21/2002
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 09/27/2006
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 07/09/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 02/16/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/10/2002
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/23/1999
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 08/30/2011
Violation Class: Minor
RTC Date: 11/16/2011

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 09/26/2012

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 11/27/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection
Action Date: 05/23/1990
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/13/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal
Action Date: 04/03/2014
Violation Class: Class 2
RTC Date: 05/12/2014

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 08/04/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 03/21/2017
Violation Class: Minor
RTC Date: 03/22/2017

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 04/05/2017
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 01/23/2019
Violation Class: Class 2, Minor
RTC Date: 02/25/2019

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 02/19/2019
Violation Class: No Violations
RTC Date: Not reported

HWP:
Name: CHEVRON USA INC RICHMOND REFINERY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
EPA Id: CAD009114919
Cleanup Status: OPERATING PERMIT
Latitude: 37.93834
Longitude: -122.3842

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Facility Type: Permitted - Operating
Facility Size: Small Treatment
Team: EDWARD NIETO
Supervisor: LUNG-YIN TAI
Site Code: 200273, 200273
Assembly District: 15
Senate District: 09
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - FINAL PART A & PART B RECEIVED
Actual Date: 04/27/2005

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date: 06/23/2027

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date: 02/25/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - FINAL PERMIT RENEWAL (EFFECTIVE)
Actual Date: 10/11/2006

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 09/10/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - PUBLIC COMMENT (END)
Actual Date: 09/20/2016

EPA Id: CAD009114919

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 08/28/1990

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - APPLICATION PART A RECEIVED
Actual Date: 09/07/2012

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - ADMINISTRATIVE REVIEW APPROVED
Actual Date: 05/13/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 09/10/2002

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date: 12/21/2012

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - APPLICANT HOLDS PUBLIC MEETING
Actual Date: 03/10/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - DRAFT CEQA
Actual Date: 11/26/2014

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 02/25/1992

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - APPLICATION PART B RECEIVED
Actual Date: 04/14/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - FINAL PART A & PART B RECEIVED
Actual Date: 10/22/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - ADMINISTRATIVE REVIEW APPROVED
Actual Date: 12/21/2012

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 12/03/2018

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - MAILING LIST
Actual Date: 12/30/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - DRAFT PERMIT RENEWAL
Actual Date: 04/14/2006

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - CALL-IN LETTER ISSUED
Actual Date: 03/29/2001

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 10/17/1988

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - DTSC MEETING WITH APPLICANT
Actual Date: 03/10/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 05/19/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - PUBLIC COMMENT (BEGIN)
Actual Date: 04/14/2006

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - APPLICATION PART A RECEIVED
Actual Date: 04/14/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - PERMIT APPEALED - APPEAL RECEIVED
Actual Date: 06/22/2017

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - PUBLIC COMMENT (END)
Actual Date: 03/30/2020

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 03/15/2020

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date: 05/13/2016

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - TECHNICAL REVIEW COMPLETED
Actual Date: 10/01/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - PUBLIC COMMENT (END)
Actual Date: 04/10/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 01/13/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date: 06/23/2017

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 02/09/1984

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - FINAL PERMIT RENEWAL (EXPIRES)
Actual Date: 10/11/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - DTSC MEETING SUMMARY
Actual Date: 03/10/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - PUBLIC NOTICE BY PERMITTEE
Actual Date: 01/13/1993

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 12/22/1990

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - RESPONSE TO 3RD NOD RECEIVED
Actual Date: 11/12/1991

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - FINAL PERMIT RENEWAL
Actual Date: 09/06/2006

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - PUBLIC COMMENT (BEGIN)
Actual Date: 08/01/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date: 08/31/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date: 08/31/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - With Changes - APPLICATION PART B RECEIVED
Actual Date: 08/29/2001

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Event Description: PC Renewal PC - No Changes - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 07/03/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - TECHNICAL REVIEW BEGIN
Actual Date: 09/06/2013

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date: 03/15/2020

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date: 04/08/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - CALL-IN LETTER ISSUED
Actual Date: 08/15/2012

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: Not reported
Event Description: *Mod Class 1 - No Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date: 11/24/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - TECHNICAL COMPLETE LETTER
Actual Date: 06/10/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - PUBLIC NOTICE - PERMIT RECEIVED
Actual Date: 11/08/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - DRAFT POST-CLOSURE PERMIT
Actual Date: 06/20/2016

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - FINAL CEQA
Actual Date: 08/01/2016

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - DRAFT PERMIT
Actual Date: 02/25/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - APPLICATION PART B RECEIVED
Actual Date: 09/07/2012

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - FINAL POST-CLOSURE PERMIT
Actual Date: 05/11/2017

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 08/10/1992

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), NEUTRAL2 (GPRA Unit), OXIDATN1 (GPRA Unit), OXIDATN2 (GPRA Unit), PRECIP1 (GPRA Unit), SEPARATE1 (GPRA Unit), STABLZATN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 08/15/1984

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 04/17/2015

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: CONTAIN1 (GPRA Unit), NEUTRAL1 (GPRA Unit), OXIDATN1 (GPRA Unit), PRECIP1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description: Renewal - No Changes - TECHNICAL REVIEW BEGIN

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Actual Date: 05/14/2016

Closure:

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - APPLICATION PART B RECEIVED
Actual Date: 03/30/2000

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - FINAL PART A & PART B RECEIVED
Actual Date: 01/07/2002

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: BARRELSTR1
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 04/15/1985

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - DRAFT POST-CLOSURE PERMIT
Actual Date: 12/13/2002

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 08/15/1995

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: BARRELSTR1
Event Description: Closure - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 06/17/1986

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: BARRELSTR1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 02/24/1987

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: BARRELSTR1
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 06/17/1986

EPA Id: CAD009114919
Facility Type: Permitted - Operating

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 09/19/2000

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 09/15/1995

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: BARRELSTR1
Event Description: Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date: 02/24/1987

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 01/07/2002

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 03/19/1998

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 06/21/1995

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT
Actual Date: 03/04/2003

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: BARRELSTR1
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 01/07/1995

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - PUBLIC COMMENT (BEGIN)

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Actual Date: 12/13/2002

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 10/25/2001

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date: 03/07/2013

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Unit Names: LANDAPP1 (GPRA Unit), LANDAPP2 (GPRA Unit), LANDAPP3 (GPRA Unit), LANDAPP4 (GPRA Unit), LANDAPP5 (GPRA Unit)
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date: 03/07/2003

Alias:
EPA Id: CAD009114919
Facility Type: Permitted - Operating
Alias Type: Envirostor ID Number
Alias: 07280129

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Alias Type: FRS
Alias: 110020506460

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Alias Type: Project Code (Site Code)
Alias: 200273

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Alias Type: Project Code (Site Code)
Alias: 200273

EPA Id: CAD009114919
Facility Type: Permitted - Operating
Alias Type: APN
Alias: 561100037

Maintenance:
EPA Id: CAD009114919
Title: Discovery of a New SWMU_150708
Document Type: Letter from Facility
Received Date: 08/13/2015

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

NPDES:

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility Status: | Historical |
| NPDES Number: | CA0005134 |
| Region: | 2 |
| Agency Number: | 8393 |
| Regulatory Measure ID: | 380249 |
| Place ID: | 252650 |
| Order Number: | R2-2011-0049 |
| WDID: | 2 071044001 |
| Regulatory Measure Type: | NPDES Permits |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 07/13/2011 |
| Effective Date Of Regulatory Measure: | 09/01/2011 |
| Termination Date Of Regulatory Measure: | 01/31/2017 |
| Expiration Date Of Regulatory Measure: | 08/31/2016 |
| Discharge Address: | Po Box 1272 |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CA0038849 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 378843 |
| Order Number: | R2-2011-0012 |
| Regulatory Measure Type: | Co-Permitee |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 03/09/2011 |
| Effective Date Of Regulatory Measure: | 04/01/2011 |
| Expiration Date Of Regulatory Measure: | 12/31/2012 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CA0005134 |
| Status: | Historical |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 380249 |
| Order Number: | R2-2011-0049 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Regulatory Measure Type: | NPDES Permits |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 07/13/2011 |
| Effective Date Of Regulatory Measure: | 09/01/2011 |
| Expiration Date Of Regulatory Measure: | 08/31/2016 |
| Termination Date Of Regulatory Measure: | 01/31/2017 |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CA0038849 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 389124 |
| Order Number: | R2-2017-0041 |
| Regulatory Measure Type: | Co-Permitee |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/12/2012 |
| Effective Date Of Regulatory Measure: | 01/01/2013 |
| Expiration Date Of Regulatory Measure: | 12/31/2017 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| NPDES Number: | CA0005134 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 410927 |
| Order Number: | R2-2016-0047 |
| Regulatory Measure Type: | NPDES Permits |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/14/2016 |
| Effective Date Of Regulatory Measure: | 02/01/2017 |
| Expiration Date Of Regulatory Measure: | 01/31/2022 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility Status: | Active |
| NPDES Number: | CA0038849 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Region: | 2 |
| Agency Number: | 8393 |
| Regulatory Measure ID: | 389124 |
| Place ID: | 252650 |
| Order Number: | R2-2017-0041 |
| WDID: | 2 071044001 |
| Regulatory Measure Type: | Co-Permitee |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/12/2012 |
| Effective Date Of Regulatory Measure: | 01/01/2013 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | 12/31/2017 |
| Discharge Address: | Po Box 1272 |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CA0038849 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 378843 |
| Order Number: | R2-2011-0012 |
| Regulatory Measure Type: | Co-Permitee |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 03/09/2011 |
| Effective Date Of Regulatory Measure: | 04/01/2011 |
| Expiration Date Of Regulatory Measure: | 12/31/2012 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| NPDES Number: | CA0005134 |
| Status: | Historical |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 380249 |
| Order Number: | R2-2011-0049 |
| Regulatory Measure Type: | NPDES Permits |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 07/13/2011 |
| Effective Date Of Regulatory Measure: | 09/01/2011 |
| Expiration Date Of Regulatory Measure: | 08/31/2016 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Termination Date Of Regulatory Measure: | 01/31/2017 |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CA0038849 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 389124 |
| Order Number: | R2-2017-0041 |
| Regulatory Measure Type: | Co-Permitee |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/12/2012 |
| Effective Date Of Regulatory Measure: | 01/01/2013 |
| Expiration Date Of Regulatory Measure: | 12/31/2017 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| NPDES Number: | CA0005134 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 410927 |
| Order Number: | R2-2016-0047 |
| Regulatory Measure Type: | NPDES Permits |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/14/2016 |
| Effective Date Of Regulatory Measure: | 02/01/2017 |
| Expiration Date Of Regulatory Measure: | 01/31/2022 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Facility Status: | Active |
| NPDES Number: | CA0005134 |
| Region: | 2 |
| Agency Number: | 8393 |
| Regulatory Measure ID: | 410927 |
| Place ID: | 252650 |
| Order Number: | R2-2016-0047 |
| WDID: | 2 071044001 |
| Regulatory Measure Type: | NPDES Permits |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/14/2016 |
| Effective Date Of Regulatory Measure: | 02/01/2017 |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | 01/31/2022 |
| Discharge Address: | Po Box 1272 |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Status: | Not reported |
| Status Date: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | CA0038849 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 378843 |
| Order Number: | R2-2011-0012 |
| Regulatory Measure Type: | Co-Permitee |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 03/09/2011 |
| Effective Date Of Regulatory Measure: | 04/01/2011 |
| Expiration Date Of Regulatory Measure: | 12/31/2012 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CA0005134 |
| Status: | Historical |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 380249 |
| Order Number: | R2-2011-0049 |
| Regulatory Measure Type: | NPDES Permits |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 07/13/2011 |
| Effective Date Of Regulatory Measure: | 09/01/2011 |
| Expiration Date Of Regulatory Measure: | 08/31/2016 |
| Termination Date Of Regulatory Measure: | 01/31/2017 |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CA0038849 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 389124 |
| Order Number: | R2-2017-0041 |
| Regulatory Measure Type: | Co-Permitee |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/12/2012 |
| Effective Date Of Regulatory Measure: | 01/01/2013 |
| Expiration Date Of Regulatory Measure: | 12/31/2017 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| | |
| NPDES Number: | CA0005134 |
| Status: | Active |
| Agency Number: | 8393 |
| Region: | 2 |
| Regulatory Measure ID: | 410927 |
| Order Number: | R2-2016-0047 |
| Regulatory Measure Type: | NPDES Permits |
| Place ID: | 252650 |
| WDID: | 2 071044001 |
| Program Type: | NPDINDLRG |
| Adoption Date Of Regulatory Measure: | 12/14/2016 |
| Effective Date Of Regulatory Measure: | 02/01/2017 |
| Expiration Date Of Regulatory Measure: | 01/31/2022 |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Chevron Products Company Richmond |
| Discharge Address: | Po Box 1272 |
| Discharge City: | Richmond |
| Discharge State: | CA |
| Discharge Zip: | 94802-0272 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commertial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94802 |
| Facility Status: | Not reported |
| NPDES Number: | Not reported |
| Region: | Not reported |
| Agency Number: | Not reported |
| Regulatory Measure ID: | Not reported |
| Place ID: | Not reported |
| Order Number: | Not reported |
| WDID: | 2 07C362212 |
| Regulatory Measure Type: | Construction |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Discharge Address: | Not reported |
| Discharge Name: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Status: | Terminated |
| Status Date: | 03/04/2015 |
| Operator Name: | Chevron Products Company |
| Operator Address: | 841 Chevron Way |
| Operator City: | Richmond |
| Operator State: | California |
| Operator Zip: | 94801 |

NPDES as of 03/2018:

| | |
|---|---|
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 2 |
| Regulatory Measure ID: | 420776 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Construction |
| Place ID: | Not reported |
| WDID: | 2 07C362212 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 12/16/2014 |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 10/06/2011 |
| Processed Date: | 10/18/2011 |
| Status: | Terminated |
| Status Date: | 03/04/2015 |
| Place Size: | 5.26 |
| Place Size Unit: | Acres |
| Contact: | David Feiglstok |
| Contact Title: | Not reported |
| Contact Phone: | 510-242-1400 |
| Contact Phone Ext: | Not reported |
| Contact Email: | dmfe@chevron.com |
| Operator Name: | Chevron Products Company |
| Operator Address: | 841 Chevron Way |
| Operator City: | Richmond |
| Operator State: | California |
| Operator Zip: | 94801 |
| Operator Contact: | David Feiglstok |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | 510-242-1400 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | dmfe@chevron.com |
| Operator Type: | Private Business |
| Developer: | Chevron Products Company |
| Developer Address: | 841 Chevron Way |
| Developer City: | Richmond |
| Developer State: | California |
| Developer Zip: | 94801 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Developer Contact: | David Feiglstok |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | N |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | N |
| Constype Below Ground Ind: | N |
| Constype Cable Line Ind: | N |
| Constype Comm Line Ind: | N |
| Constype Commertial Ind: | N |
| Constype Electrical Line Ind: | N |
| Constype Gas Line Ind: | N |
| Constype Industrial Ind: | Y |
| Constype Other Description: | Not reported |
| Constype Other Ind: | N |
| Constype Recons Ind: | N |
| Constype Residential Ind: | N |
| Constype Transport Ind: | N |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | N |
| Constype Water Sewer Ind: | N |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | San Francisco Bay |
| Certifier: | David Feiglstok |
| Certifier Title: | Not reported |
| Certification Date: | 06-OCT-11 |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |

CONTRA COSTA CO. SITE LIST:

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY |
| Address: | 841 CHEVRON WY |
| City: | RICHMOND |
| Facility ID: | FA0033349 |
| Billing Status: | ACTIVE, BILLABLE |
| Program Status: | CONTRA COSTA CO. SITE LIST |
| Program/Elements: | APSA: 100M GALLONS OR MORE |
| Region: | CONTRA COSTA |
| Cupa Number: | 770837 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY |
| Address: | 841 CHEVRON WY |
| City: | RICHMOND |
| Facility ID: | FA0033349 |
| Billing Status: | ACTIVE, BILLABLE |
| Program Status: | CONTRA COSTA CO. SITE LIST |
| Program/Elements: | CALARP RMP |
| Region: | CONTRA COSTA |
| Cupa Number: | 770837 |

| | |
|---|---|
| Name: | CHEVRON RICHMOND REFINERY |
| Address: | 841 CHEVRON WY |
| City: | RICHMOND |
| Facility ID: | FA0033349 |
| Billing Status: | ACTIVE, BILLABLE |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: CALARP: ISO SAFETY PLAN
Region: CONTRA COSTA
Cupa Number: 770837

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0033349
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: CALARP: UNANNOUNCED INSPECTION PROGRAM
Region: CONTRA COSTA
Cupa Number: 770837

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0033349
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: OIL REFINERIES
Region: CONTRA COSTA
Cupa Number: 770837

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0033349
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: RCRA LQG: 2000 OR MORE TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 770837

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0033349
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 770837

Name: CHEVRON LUBRICANTS/RICHMOND PLANT
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0030198
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: APSA: 1M - <10M GALLONS
Region: CONTRA COSTA
Cupa Number: 773529

Name: CHEVRON LUBRICANTS/RICHMOND PLANT
Address: 841 CHEVRON WY

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

City: RICHMOND
Facility ID: FA0030198
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10M-100M LBS
Region: CONTRA COSTA
Cupa Number: 773529

Name: CHEVRON LUBRICANTS/RICHMOND PLANT
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0030198
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 773529

Name: CHEVRON PIPELINE CO - RICHMOND PUMP STATION
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0031698
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 774475

Name: CHEVRON PIPELINE CO - RICHMOND PUMP STATION
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0031698
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 774475

Name: REDWOOD PAINTING CO INC
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028785
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 20+ EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772067

Name: GOEBEL CONSTRUCTION, INC.
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028832
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 20+ EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772119

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0033349
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: RCRA LQG LEGACY PROGRAM
Region: CONTRA COSTA
Cupa Number: 770837

Name: WESTERN RAIL SWITCHING INC
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028491
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: LESS THAN 1000 LBS
Region: CONTRA COSTA
Cupa Number: 771744

Name: WESTERN RAIL SWITCHING INC
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028491
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 771744

Name: UNDERGROUND CONSTRUCTION
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028743
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 772021

Name: REDWOOD PAINTING CO INC
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028785
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG GENERAL
Region: CONTRA COSTA
Cupa Number: 772067

Name: GOEBEL CONSTRUCTION, INC.
Address: 841 CHEVRON WY
City: RICHMOND
Facility ID: FA0028832
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Region: CONTRA COSTA
Cupa Number: 772119

WDS:
Name: RICHMOND REFINERY
Address: 841 CHEVRON Way
City: RICHMOND
Facility ID: San Francisco Bay 071044002
Facility Type: Solid Waste Site-Class I - A solid waste facility at which hazardous waste may be treated or stored.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: Not reported
Subregion: 2
Facility Telephone: Not reported
Facility Contact: DON KINKELA
Agency Name: CHEVRON PRODUCTS COMPANY
Agency Address: PO BOX 1272
Agency City,St,Zip: RICHMOND 948020272
Agency Contact: DAVE WICKLAND
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 2911
SIC Code 2: 2869
Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Primary Waste: PROCES
Waste Type2: D
Waste2: Process Waste (Waste produced as part of the industrial/manufacturing process)
Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste: Process Waste (Waste produced as part of the industrial/manufacturing process)
Secondary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

CIWQS:

| | |
|---|---|
| Name: | RICHMOND REFINERY |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Agency: | Chevron Products Company Richmond |
| Agency Address: | Po Box 1272, Richmond, CA 94802-0272 |
| Place/Project Type: | Petroleum Refinery |
| SIC/NAICS: | Multiple SIC |
| Region: | 2 |
| Program: | NPDESWW, NPDINDLRG |
| Regulatory Measure Status: | Active |
| Regulatory Measure Type: | NPDES Permit |
| Order Number: | R2-2016-0047 |
| WDID: | 2 071044001 |
| NPDES Number: | CA0005134 |
| Adoption Date: | 12/14/2016 |
| Effective Date: | 02/01/2017 |
| Termination Date: | Not reported |
| Expiration/Review Date: | 01/31/2022 |
| Design Flow: | 25 |
| Major/Minor: | Major |
| Complexity: | A |
| TTWQ: | 1 |
| Enforcement Actions within 5 years: | 1 |
| Violations within 5 years: | 3 |
| Latitude: | 37.93161 |
| Longitude: | -122.39131 |

CERS:

| | |
|---|---|
| Name: | ENVENT CORPORATION |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 466562 |
| CERS ID: | 110021113196 |
| CERS Description: | US EPA Air Emission Inventory System (EIS) |

| | |
|---|---|
| Name: | CLEAN HARBORS INDUSTRIAL SERVICES, INC |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 515063 |
| CERS ID: | 110070060459 |
| CERS Description: | US EPA Air Emission Inventory System (EIS) |

| | |
|---|---|
| Name: | CHEVRON PRODUCTS CO |
| Address: | 841 CHEVRON WAY |
| City,State,Zip: | RICHMOND, CA 94801 |
| Site ID: | 336039 |
| CERS ID: | 80001593 |
| CERS Description: | Corrective Action |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Supervisor |
| Entity Name: | Referred - Not Assigned |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Site ID: 104873
CERS ID: 10010575
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 09/30/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/20/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-13-2018 |
| Citation: | 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665 |
| Violation Description: | Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-30-2006 |
| Citation: | 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp |
| Violation Description: | Cal/OSHA Violation |
| Violation Notes: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Division: Cal/OSHA
Violation Program: OSHA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-03-2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/30/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-22-2017
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 06/22/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Training - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67,

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 06/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 05-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-13-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-22-2017

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Site City: | RICHMOND |
| Site Zip: | 94802 |
| Enf Action Date: | 11-21-2013 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | UST |
| Enf Action Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 104873 |
| Facility Name: | CHEVRON RICHMOND REFINERY |
| Env Int Type Code: | CPS |
| Program ID: | SL18236654 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Unknown |
| Latitude: | 37.937818 |
| Longitude: | -122.390956 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Shawn Lee |
| Entity Title: | Not reported |
| Affiliation Address: | PO BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Contra Costa County Health Services Department |
| Entity Title: | Not reported |
| Affiliation Address: | 4585 Pacheco BlvdSuite 100 |
| Affiliation City: | Martinez |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 335-3200

Affiliation Type Desc: Document Preparer
Entity Name: Nicole Mendoza
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: CHEVRON PRODUCTS CO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 242-3000

Affiliation Type Desc: UST Tank Operator
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802
Affiliation Phone: (510) 242-3933

Affiliation Type Desc: Legal Owner
Entity Name: CHEVRON RICHMOND REFINERY
Entity Title: Not reported
Affiliation Address: P.O. BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802-0272
Affiliation Phone: (925) 842-1000

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST., SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Permit Applicant
Entity Name: Shawn Lee

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Entity Title: Manager, Health Environmental & Safety
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 242-1400

Affiliation Type Desc: UST Tank Owner
Entity Name: Chevron U.S.A. Inc. - Chevron Richmond Refinery
Entity Title: Not reported
Affiliation Address: P.O. Box 1272
Affiliation City: Richmond
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94802
Affiliation Phone: (510) 242-3933

Affiliation Type Desc: Identification Signer
Entity Name: Shawn Lee
Entity Title: Manager, Health Environmental & Safety
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: CHEVRON RICHMOND REFINERY
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Chevron Products Company
Entity Title: Not reported
Affiliation Address: 6001 Bollinger Canyon Road
Affiliation City: San Ramon
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-1000

Name: CHEVRON RICHMOND REFINERY - LAND DISPOSAL AREAS
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Site ID: 210037
CERS ID: L10007637786
CERS Description: Land Disposal Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Entity Name: ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST., SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: CHEVRON USA INC RICHMOND REFINERY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94801
Site ID: 192923
CERS ID: CAD009114919
CERS Description: Hazardous Waste

Evaluation:
Eval General Type: Information Request
Eval Date: 06-10-2002
Violations Found: No
Eval Type: DTSC Financial Records Review
Eval Notes: Financial Records Review - Treatment, Storage and Disposal
Eval Division: Department of Toxic Substances Control
Eval Program: DTSC_ENF
Eval Source: ENVSTORHAZ

Eval General Type: Information Request
Eval Date: 07-09-2009
Violations Found: No
Eval Type: DTSC Financial Records Review
Eval Notes: Financial Records Review - Treatment, Storage and Disposal
Eval Division: Department of Toxic Substances Control
Eval Program: DTSC_ENF
Eval Source: ENVSTORHAZ

Eval General Type: Information Request
Eval Date: 10-20-2006
Violations Found: Yes
Eval Type: DTSC Financial Records Review
Eval Notes: Financial Records Review - Treatment, Storage and Disposal Return To Compliance: 2006-11-10 00:00:00
Eval Division: Department of Toxic Substances Control
Eval Program: DTSC_ENF
Eval Source: ENVSTORHAZ

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-16-2011
Violations Found: No
Eval Type: DTSC Compliance Evaluation Inspection
Eval Notes: Compliance Evaluation Inspection - Post-Closure
Eval Division: Department of Toxic Substances Control
Eval Program: DTSC_ENF
Eval Source: ENVSTORHAZ

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2014
Violations Found: Yes

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Eval Type: | DTSC Focused Compliance Inspection |
| Eval Notes: | Focused Compliance Inspection - Treatment, Storage and Disposal Return To Compliance: 2014-05-12 00:00:00 |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Information Request |
| Eval Date: | 04-05-2017 |
| Violations Found: | No |
| Eval Type: | DTSC Financial Records Review |
| Eval Notes: | Financial Records Review - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Information Request |
| Eval Date: | 08-30-2011 |
| Violations Found: | Yes |
| Eval Type: | DTSC Financial Records Review |
| Eval Notes: | Financial Records Review - Treatment, Storage and Disposal Return To Compliance: 2011-11-16 00:00:00 |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 09-27-2006 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-25-2000 |
| Violations Found: | Yes |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal Return To Compliance: 2000-04-27 00:00:00 |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 05-13-2014 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 05-21-2002 |
| Violations Found: | No |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 05-22-2001 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 09-26-2012 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Information Request |
| Eval Date: | 11-27-2012 |
| Violations Found: | No |
| Eval Type: | DTSC Financial Records Review |
| Eval Notes: | Financial Records Review - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Information Request |
| Eval Date: | 02-03-2005 |
| Violations Found: | Yes |
| Eval Type: | DTSC Financial Records Review |
| Eval Notes: | Financial Records Review - Treatment, Storage and Disposal Return To Compliance: 2010-04-13 00:00:00 |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-11-2003 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-05-2005 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-23-1999 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| | |
| Eval General Type: | Information Request |
| Eval Date: | 08-04-2014 |
| Violations Found: | No |
| Eval Type: | DTSC Financial Records Review |
| Eval Notes: | Financial Records Review - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-21-2017 |
| Violations Found: | Yes |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal Return To Compliance: 2017-03-22 00:00:00 |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 05-19-2009 |
| Violations Found: | No |
| Eval Type: | DTSC Compliance Evaluation Inspection |
| Eval Notes: | Compliance Evaluation Inspection - Treatment, Storage and Disposal |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 05-23-1990 |
| Violations Found: | No |
| Eval Type: | Compliance |
| Eval Notes: | Compliance Evaluation Inspection |
| Eval Division: | Department of Toxic Substances Control |
| Eval Program: | DTSC_ENF |
| Eval Source: | ENVSTORHAZ |
| | |
| Eval General Type: | Information Request |
| Eval Date: | 06-02-2005 |
| Violations Found: | Yes |
| Eval Type: | DTSC Financial Records Review |
| Eval Notes: | Financial Records Review - Treatment, Storage and Disposal Return To Compliance: 2010-04-13 00:00:00 |
| Eval Division: | Department of Toxic Substances Control |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Program: DTSC_ENF
Eval Source: ENVSTORHAZ

Affiliation:
Affiliation Type Desc: Facility Owner
Entity Name: Chevron Products Company
Entity Title: Not reported
Affiliation Address: PO BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 948020000
Affiliation Phone: 5102421400

Affiliation Type Desc: Facility Contact
Entity Name: LISA DUNCAN HAZ WASTE SECTION
Entity Title: Not reported
Affiliation Address: 841 CHEVRON WAY
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802
Affiliation Phone: 5102425610

Name: CHEVRON RICHMOND REFINERY
Address: 841 CHEVRON WAY
City,State,Zip: RICHMOND, CA 94802
Site ID: 104873
CERS ID: SL18236654
CERS Description: Cleanup Program Site

Violations:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 10-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 11-21-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Violation Date: | 06-27-2016 |
| Citation: | HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple |
| Violation Description: | UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section. |
| Violation Notes: | Returned to compliance on 09/30/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections |
| Violation Description: | Haz Waste Generator Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 11/20/2014. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-13-2018 |
| Citation: | 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665 |
| Violation Description: | Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion. |
| Violation Notes: | Returned to compliance on 07/24/2018. OBSERVATION: Owner/Operator did not install or maintain spill bucket which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, or is resistant to galvanic corrosion. CORRECTIVE ACTION: Install or repair spill bucket so that it is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill bucket/spill container, and is resistant to galvanic corrosion. Submit verification. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-20-2013 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-30-2006 |
| Citation: | 01002 - Search Title 8 regulations for 5144 H02 A at https://www.dir.ca.gov/title8/index/T8index.asp |
| Violation Description: | Cal/OSHA Violation |
| Violation Notes: | Not reported |
| Violation Division: | Cal/OSHA |
| Violation Program: | OSHA |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-03-2015 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/30/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-22-2017 |
| Citation: | 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e) |
| Violation Description: | Failure to maintain a copy of the designated operator monthly |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

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|---|---|
| | inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA. |
| Violation Notes: | Returned to compliance on 06/22/2017. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Training - General |
| Violation Notes: | Returned to compliance on 12/20/2013. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple |
| Violation Description: | APSA Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | APSA |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 10-23-2014 |
| Citation: | HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple |
| Violation Description: | Business Plan Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 11/03/2015. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 06-27-2016 |
| Citation: | HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2 |
| Violation Description: | Failure to test the spill bucket annually. |
| Violation Notes: | Returned to compliance on 06/27/2016. |
| Violation Division: | Contra Costa County Health Services Department |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 104873 |
| Site Name: | CHEVRON RICHMOND REFINERY |
| Violation Date: | 11-21-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Administration/Documentation - General |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Violation Notes: Returned to compliance on 12/20/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 05-19-2016
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 06/16/2016. 48 hr notification for testing
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 06/27/2016. 48 HR NOTIFICATION FOR TESTING
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Violation Date: 06-27-2016
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 07/19/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-13-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 11-01-2011
Violations Found: No
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-21-2011
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Date: 03-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-22-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2013
Violations Found: Yes
Eval Type: Routine done by local agency

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Occupational Safety and Health Administration Inspection
Eval Date: 03-08-2006
Violations Found: Yes
Eval Type: Cal/OSHA Inspection
Eval Notes: Not reported
Eval Division: Cal/OSHA
Eval Program: OSHA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: CalARP

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 05-19-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-13-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-22-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 06-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 10-23-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-20-2013

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 104873
Site Name: CHEVRON RICHMOND REFINERY
Site Address: 841 CHEVRON WAY
Site City: RICHMOND
Site Zip: 94802
Enf Action Date: 11-21-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 104873
Facility Name: CHEVRON RICHMOND REFINERY
Env Int Type Code: CPS
Program ID: SL18236654
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.937818
Longitude: -122.390956

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Shawn Lee
Entity Title: Not reported
Affiliation Address: PO BOX 1272
Affiliation City: RICHMOND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94802
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Contra Costa County Health Services Department |
| Entity Title: | Not reported |
| Affiliation Address: | 4585 Pacheco BlvdSuite 100 |
| Affiliation City: | Martinez |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94553 |
| Affiliation Phone: | (925) 335-3200 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Nicole Mendoza |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | CHEVRON PRODUCTS CO |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-3000 |
| | |
| Affiliation Type Desc: | UST Tank Operator |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. BOX 1272 |
| Affiliation City: | RICHMOND |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802-0272 |
| Affiliation Phone: | (925) 842-1000 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ALAN FRIEDMAN - SAN FRANCISCO BAY RWQCB (REGION 2) |
| Entity Title: | Not reported |
| Affiliation Address: | 1515 CLAY ST., SUITE 1400 |
| Affiliation City: | OAKLAND |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 242-1400 |

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | Chevron U.S.A. Inc. - Chevron Richmond Refinery |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 1272 |
| Affiliation City: | Richmond |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94802 |
| Affiliation Phone: | (510) 242-3933 |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Shawn Lee |
| Entity Title: | Manager, Health Environmental & Safety |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | CHEVRON RICHMOND REFINERY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |

**CHEVRON USA INC RICHMOND REFINERY (Continued)** **1001205644**

| | |
|---|---|
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Chevron Products Company |
| Entity Title: | Not reported |
| Affiliation Address: | 6001 Bollinger Canyon Road |
| Affiliation City: | San Ramon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94583 |
| Affiliation Phone: | (925) 842-1000 |

Count: 8 records. ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| POINT MOLATE | S121665007 | POINT MOLATE, GRDWTR CLEAN | END OF WESTERN DRIVE | 94801 | CIWQS |
| RICHMOND | 1018131946 | OAKLAND NAVAL SUPPLY CENTER-POINT | END WESTERN DR. OFF SR 17 | 94801 | DOCKET HWC |
| RICHMOND | 1011908006 | POINT MOLATE, GRDWTR CLEAN | END OF WESTERN DR, PT MOLATE | 94801 | FINDS, ECHO |
| RICHMOND | S106235110 | TERMINAL ONE RICHMOND | TERMINAL ONE PORT OF RICHMOND | | CPS-SLIC |
| RICHMOND | S106234918 | SEACLIFF VILLAS | UNKNOWN POINT RICHMOND | | CPS-SLIC |
| RICHMOND | S114660796 | NFD POINT MOLATE SITE MG-1 | WESTERN DRIVE, BUILDING 6, POI | | RGA LUST |
| RICHMOND | S114660794 | NFD POINT MOLATE SITE MG-1 | WESTERN DRIVE, BUILDING 6, POI | | RGA LUST |
| RICHMOND | 1023281569 | PACKAGED GROUNDWATER TREATMENT PLA | WESTERN | 94801 | FINDS |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Quarterly

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Quarterly

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/13/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 42
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/12/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 41

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/24/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/20/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

***State and tribal Brownfields sites***

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 04/30/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/28/2019
Date Data Arrived at EDR: 06/28/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 26

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/02/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/18/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/03/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/10/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 05/16/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 63

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/13/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/23/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/11/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 70

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 06/28/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 26

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/17/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/22/2019
Date Data Arrived at EDR: 05/23/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 56

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 06/05/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 47

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 05/30/2019
Date Data Arrived at EDR: 05/31/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 53

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/13/2019
Date Data Arrived at EDR: 05/16/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 63

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/08/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/15/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/17/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/25/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/17/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/12/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/04/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 05/23/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/18/2019
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 79

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/28/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/31/2019
Date Data Arrived at EDR: 05/31/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/23/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 56

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/19/2019
Date Data Arrived at EDR: 05/23/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 60

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/18/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 07/23/2019
Number of Days to Update: 49

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/28/2019
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 05/09/2019
Date Data Arrived at EDR: 05/10/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 68

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/19/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/10/2019
Date Data Arrived at EDR: 06/12/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 42
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 76
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/26/2019
Next Scheduled EDR Contact: 10/14/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 07/16/2019
Number of Days to Update: 70
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2019
Next Scheduled EDR Contact: 10/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2019
Next Scheduled EDR Contact: 10/28/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

PT MOLATE
330 25TH STREET
RICHMOND, CA 94801

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 37.94778 - 37° 56' 52.01'' |
| Longitude (West): | 122.413997 - 122° 24' 50.39'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 551487.4 |
| UTM Y (Meters): | 4199977.5 |
| Elevation: | 194 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 5641122 SAN QUENTIN, CA |
| Version Date: | 2012 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

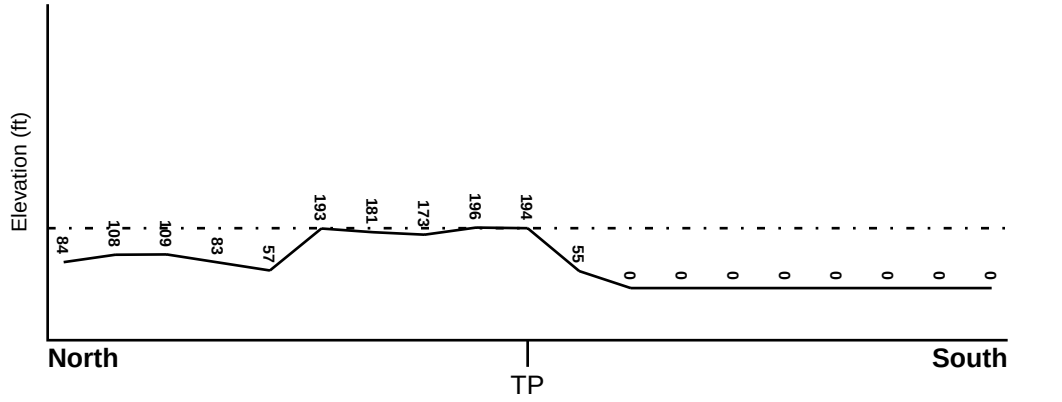
**TOPOGRAPHIC INFORMATION**

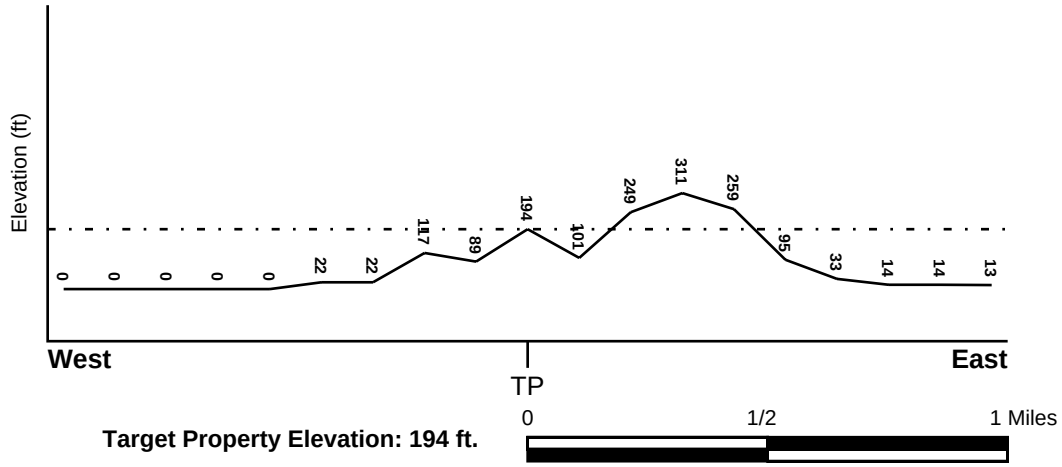
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General SSW

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




**Target Property Elevation: 194 ft.**

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| 06013C0208G | FEMA FIRM Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| 06013C0209G | FEMA FIRM Flood data |
| 06013C0217G | FEMA FIRM Flood data |
| 06013C0216G | FEMA FIRM Flood data |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| SAN QUENTIN | YES - refer to the Overview Map and Detail Map |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

| | |
|---|---|
| Search Radius: | 1.25 miles |
| Location Relative to TP: | 1/2 - 1 Mile SE |
| Site Name: | Naval Supply Center Pt Molate Site |
| Site EPA ID Number: | CA0170090021 |
| Groundwater Flow Direction: | NOT AVAILABLE. |
| Measured Depth to Water: | 9 feet. |
| Hydraulic Connection: | The surficial aquifer is unconfined. Information about the hydraulic connection between the surficial and underlying aquifers is not available. |
| Sole Source Aquifer: | No information about a sole source aquifer is available |
| Data Quality: | Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s) |

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| Not Reported | | |

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

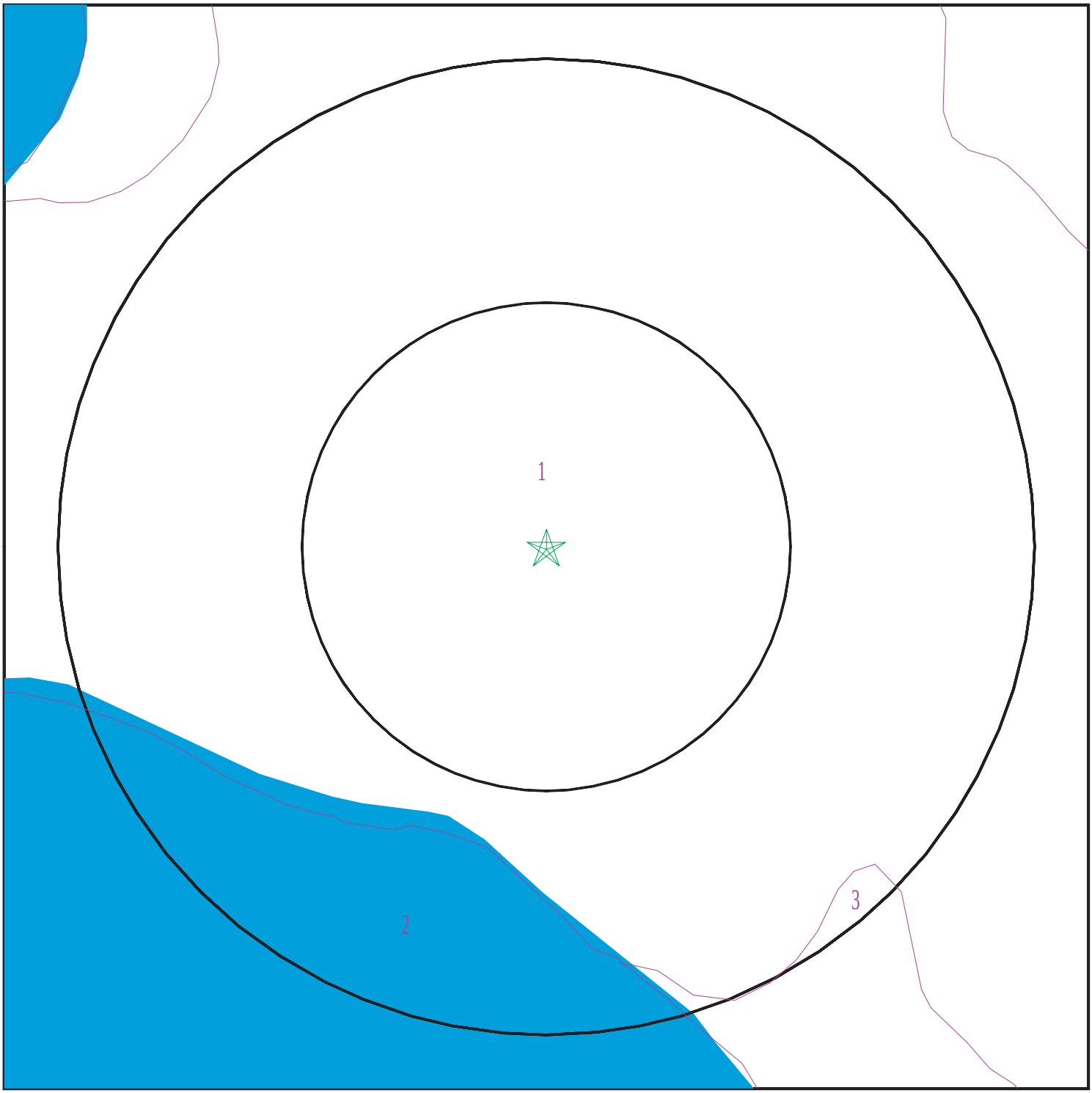
| | |
|---|---|
| Era: | Mesozoic |
| System: | Cretaceous |
| Series: | Upper Mesozoic |
| Code: | uMze*(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 5740188.2s




| | | | |
|---|---|---|---|
| SITE NAME: | Pt Molate | CLIENT: | Terraphase Engineering Inc. |
| ADDRESS: | 330 25th Street<br>Richmond CA 94801 | CONTACT: | Wendy Bellah |
| | | INQUIRY #: | 5740188.2s |
| LAT/LONG: | 37.94778 / 122.413997 | DATE: | August 05, 2019 3:11 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: MILLSHOLM

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 30 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 11 inches | loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 1.4 Min: 0 | Max: Min: |
| 2 | 11 inches | 16 inches | unweathered bedrock | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 1.4 Min: 0 | Max: Min: |

---

**Soil Map ID: 2**

Soil Component Name: Water

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

**Soil Map ID: 3**

Soil Component Name: URBAN LAND

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

## FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No Wells Found | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|

No PWS System Found

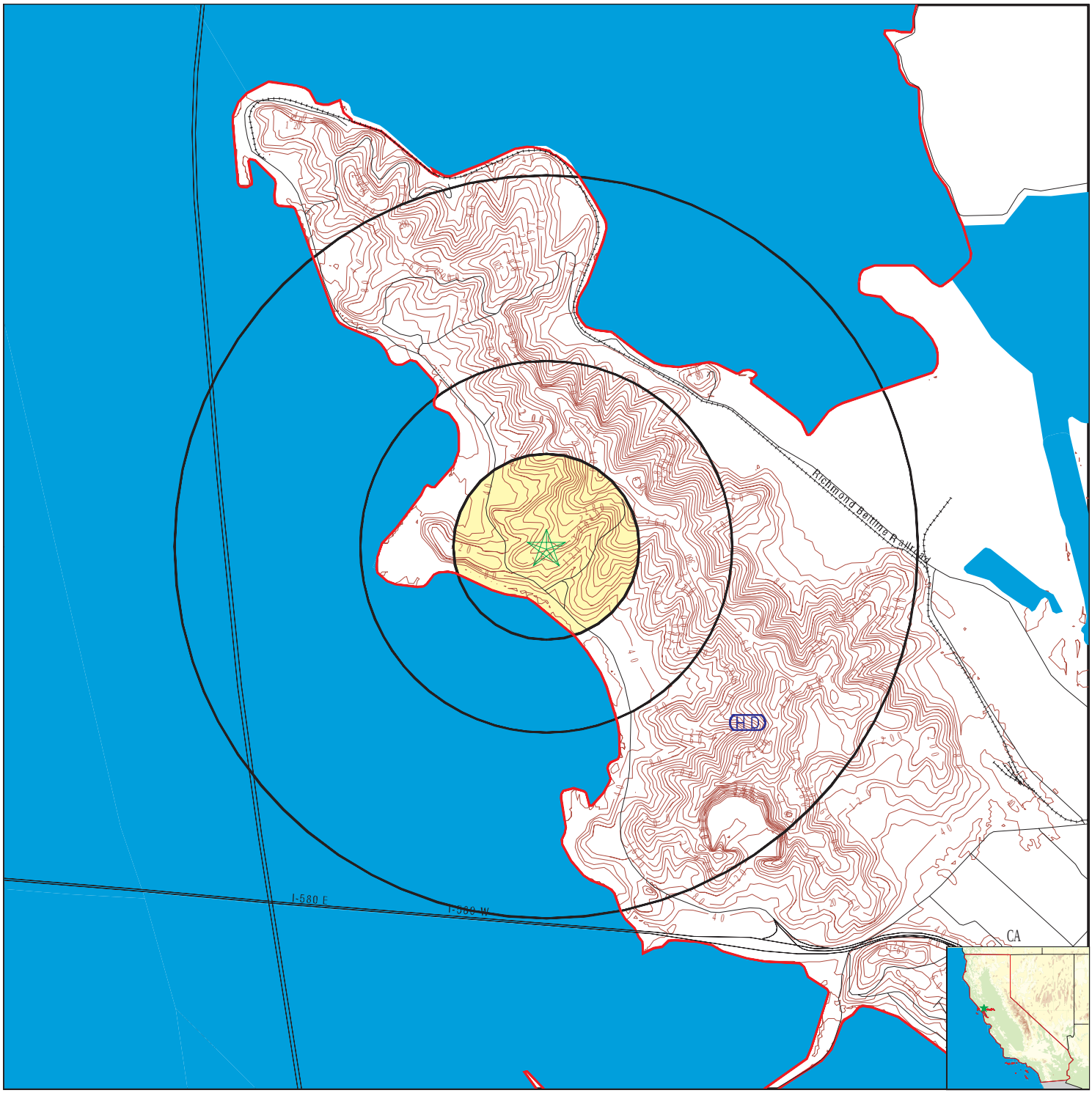
Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|

No Wells Found

# PHYSICAL SETTING SOURCE MAP - 5740188.2s




0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

| | | | |
|---|---|---|---|
| SITE NAME: | Pt Molate | CLIENT: | Terraphase Engineering Inc. |
| ADDRESS: | 330 25th Street<br>Richmond CA 94801 | CONTACT: | Wendy Bellah |
| | | INQUIRY #: | 5740188.2s |
| LAT/LONG: | 37.94778 / 122.413997 | DATE: | August 05, 2019 3:11 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 94801 | 5 | 0 |

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 94801

Number of sites tested: 1

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 1.200 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

**STREET AND ADDRESS INFORMATION**

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## APPENDIX J
TABLE 3-1: TANK PRODUCT HISTORY

## TABLE 3-1

## TANK PRODUCT HISTORY
## ENVIRONMENTAL BASELINE SURVEY
## NAVAL FUEL DEPOT POINT MOLATE

| Tank Number | Product Stored | Product Change Date |
|---|---|---|
| 1 | Navy Special | April 1943 |
| | DFM | October 1958 |
| | JP-5 | July 1960 |
| | DFM | December 1980 |
| 2 | Navy Special | April 1943 |
| | DFM | October 1958 |
| | JP-5 | July 1960 |
| | DFM | December 1980 |
| 3 | Navy Special | April 1943 |
| | DFM | October 1958 |
| | JP-5 | July 1960 |
| 4 | Navy Special | April 1943 |
| | DFM | October 1958 |
| | JP-5 | April 1980 |
| 5 | Navy Special | April 1943 |
| | DFM | May 1960 |
| | JP-5 | June 1963 |
| | DFM | September 1980 |
| 6 | NSFO | April 1943 |
| | DFM | May 1960 |
| | JP-5 | June 1963 |
| | DFM | June 1964 |

TABLE 3-1 (Continued)

TABLE PRODUCT HISTORY
ENVIRONMENTAL BASELINE SURVEY
NAVAL FUEL DEPOT POINT MOLATE

| Tank Number | Product Stored | Product Change Date |
|---|---|---|
| 7 | NSFO | April 1943 |
| | NDF | January 1972 |
| | DFM | April 1975 |
| 8 | Navy Special | April 1943 |
| | NDF | January 1972 |
| | DFM | April 1975 |
| 9 | NSFO | April 1943 |
| | Distillate | February 1971 |
| | F-76 | April 1975 |
| 10 | NSFO | April 1943 |
| | Distillate | February 1971 |
| | DFM | September 1981 |
| | JP-8 | 1995 |
| 11 | NSFO | April 1943 |
| | AVGAS 115/145 | September 1953 |
| | JP-5 | July 1977 |
| 12 | NSFO | April 1943 |
| | NDF | February 1971 |
| | DFM | September 1981 |
| 13 | NSFO | April 1943 |
| | NDF | January 1972 |
| | DFM | April 1975 |

**TABLE 3-1 (Continued)**

**TABLE PRODUCT HISTORY**
**ENVIRONMENTAL BASELINE SURVEY**
**NAVAL FUEL DEPOT POINT MOLATE**

| Tank Number | Product Stored | Product Change Date |
|---|---|---|
| 14 | NSFO | April 1943 |
| | F-76 | March 1977 |
| | JP-5 | June 1980 |
| 15 | NSFO | April 1943 |
| | DFM | March 1977 |
| | JP-5 | June 1980 |
| 16 | NSFO | April 1943 |
| | DFM | November 1976 |
| | JP-5 | June 1980 |
| 17 | NSFO | April 1943 |
| | DFM | June 1977 |
| | JP-5 | June 1980 |
| 18 | NSFO | April 1943 |
| | DFM | June 1977 |
| | JP-5 | June 1980 |
| 19 | NSFO | April 1943 |
| | DFM | June 1977 |
| | JP-5 | June 1980 |
| 20 | NSFO | April 1943 |
| | BS&W | June 1975 |

**TABLE 3-1 (Continued)**

**TABLE PRODUCT HISTORY**
**ENVIRONMENTAL BASELINE SURVEY**
**NAVAL FUEL DEPOT POINT MOLATE**

| Tank Number | Product Stored | Product Change Date |
|---|---|---|
| 21 | AVGAS 115/145 | February 1942 |
| | MOGAS MG-1 | September 1961 |
| | JP-5 | October 1977 |
| | DFM | July 1980 |
| 22 | AVGAS 115/145 | February 1942 |
| | MOGAS MG-1 | September 1961 |
| | JP-5 | October 1977 |
| | DFM | July 1980 |
| 23 | AVGAS 115/145 | February 1942 |
| | MOGAS MG-1 | September 1961 |
| | JP-5 | October 1977 |
| | DFM | July 1980 |

TABLE 3-1 (Continued)

TABLE PRODUCT HISTORY
ENVIRONMENTAL BASELINE SURVEY
NAVAL FUEL DEPOT POINT MOLATE

| Tank Number | Product Stored | Product Change Date |
|---|---|---|
| 24 | AVGAS 115/145 | February 1942 |
| | MOGAS MG-1 | September 1961 |
| | JP-5 | October 1977 |
| | DFM | July 1980 |

Notes:

| | |
|---|---|
| AVGAS | aviation gasoline |
| BS&W | ballast, sediment, and wastewater |
| Distillate | diesel fuel |
| DFM | diesel fuel marine |
| F- | Navy distillate (diesel fuel marine) |
| JP- | jet turbine fuel |
| MOGAS | motor gasoline |
| NDF | Naval diesel fuel |
| NSFO | Navy special fuel oil a.k.a. Navy Special, equivalent to a bunker fuel |

Sources:

1) NFD Pt. Molate New Tank History Cards. Undated. (This is the major source with the exceptions listed below.)
2) ERM-West, Inc. 1990. Shallow Soil Investigation, NFD Point Molate. Table 2-2. September. (Since Tank 21 did not have a tank history card, information from Table 2-2 was used.)
3) Robertson, Walter T. (Tom). 1996. Phone conversation between Tom Robertson, NFD Point Molate and Scott Kinderwater, MK. June 26. (Stated Tank 10 switch to JP-8 which occurred after the last New Tank History Card entry.)

# APPENDIX K
RWQCB UST CLOSURE LETTERS

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of*
*Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*



RECEIVED
AUG 2 4 2006
Contra Costa Health
Hazardous Materials


Date: AUG 2 2 2006
File No. 2119.1057 (AVC)

U.S. Department of the Navy
BRAC Program Management Office West
Attn: Mr. Michael Bloom
1455 Frazee Road, Suite 900
San Diego, CA 92108-4310

**Subject:** **Case Closure Letter for Underground Storage Tanks #1 and #20, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case Nos. 07D9203 and 07D9210)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks #1 and #2, located at the former Naval Fuel Depot Point Molate, in Richmond. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required for the proposed light industrial/commercial land use scenario. Based on current environmental conditions, tanks #1 and #20 site locations cannot support unrestricted land use (e.g. residential). If future land use changes, the landowner must comply with all the requirements in the "*Covenant to Restrict Use of Property and Environmental Restriction for the Property at the Former Naval Fuel Depot Point Molate.*"

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our offices if you have any questions regarding this matter.

Sincerely,

for Bruce H. Wolfe
Executive Officer

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


August 12, 2010
ECM T0609592138
File No. 2119.1057 (GVL)

*By email*
Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**Subject: Transmittal of Closure Letter and Site Summary for Underground Storage Tank #4, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9204)**

Dear Mr. Bloom:

Attached please find the uniform underground storage tanks (USTs) closure letter and the site closure summary for the above referenced UST site. This letter documents that, based on available information, no further action (NFA) related to the above mentioned underground storage tank release is required.

This NFA status applies only to releases of petroleum from fuel USTs at the above referenced site. This determination does not apply to groundwater polluted by non-petroleum related chemicals or where other sources of petroleum pollution exist (e.g., fuel lines, spills, and above ground tanks). Based on current environmental conditions, and as stipulated in the Covenant to Restrict Use of Property (CRUP) recorded in Contra Costa County on March 29, 2010, the use of the site is restricted. Under the current status this site cannot support unrestricted land use (e.g. residential uses). Current and future landowner(s) must comply with all requirements of any CRUP and any other environmental restrictions for the Former Naval Fuel Depot Point Molate.

If you have any questions regarding this matter, please contact George Leyva of my staff at (510) 622-2379 or by email at gleyva@waterboards.ca.gov.

Sincerely,

Terry Seward for
Digitally signed by Terry Seward
Date: 2010.08.13 13:40:02 -07'00'

Bruce H. Wolfe
Executive Officer

Enclosures:
Site Closure Summary
Case Closure Letter

cc w/att:

Lamont Thompson
City of Richmond
1401 Marina Way South
Richmond, CA 94804 Janet_Schneider@ci.richmond.ca.us

Mr. Paul Andrews
Contra Costa County
4333 Pacheco Blvd.
Martinez, CA 94553-2073 pandrews@hsd.co.contra-costa.ca.us

Mr. Don Gosney
Community Co-Chair - Former RAB
929 Lassen St.
Richmond, CA 94805 dongosney@comcast.net

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


August 12, 2010
ECM T0609592138
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #4, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9204)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Terry Seward for

Digitally signed by Terry Seward
Date: 2010.08.13 13:39:28 -07'00'

Bruce H. Wolfe
Executive Officer

# SITE CLOSURE SUMMARY
# Tank 4

## I. AGENCY INFORMATION

Date: August 6, 2010

| | |
|---|---|
| **Agency Name:** SF Bay Regional Water Quality Control Board | **Address:** 1515 Clay Street; Suite 1400 |
| **City/State/Zip:** Oakland, CA 94612 | **Phone:** (510) 622-2300 |
| **Responsible Staff Person:** George Leyva | **Title:** Engineering Geologist |

## II. SITE INFORMATION

| | | |
|---|---|---|
| **Site Facility Name:** Naval Fuel Depot Point Molate | | |
| **Site Facility Address:** Western Drive, Building #6, Richmond, California | | |
| **RB/SMS Case No.:** 07D9204 | **LOP Case No.:** Site ID 59389 | **Priority:** |
| **URF Filing Date:** 6/13/01 | **SWEEPS No.:** | |

Responsible Parties (include addresses and phone numbers)

Department of the Navy

Base Realignment and Closure (BRAC) Office West

1455 Frazee Road, Suite 900, San Diego, CA

(619) 532-0900

| Tank No. | Size in Gallons | Contents | Closed In—Place/Removed? | Date |
|---|---|---|---|---|
| Tank 4 | 2,100,000 | Bunker, Diesel, JP-5 | Closed In-place | 8/12/1996 |
| | | | | |
| | | | | |

## III. RELEASE AND SITE CHARACTERIZATION INFORMATION

| | | |
|---|---|---|
| **Cause and Type of Release:** Tank valve leak and pipeline leak in tank vicinity. | | |
| Site characterization complete? Yes | Date Approved By Oversight Agency: March 26, 2002 | |
| Monitoring wells installed? No (no groundwater) | Number: NA | Proper screened interval? NA |
| Highest GW (Feet Below Ground Surface): NA | Lowest GW: NA | Flow Direction: NA |
| Most Sensitive Current Use: Open space with no public access. | | |
| Most Sensitive Potential Use and Probability of Use:<br>Planned open space/recreational. Probability of this use is high. | | |
| Are drinking water wells affected? No | Aquifer Name: NA | |
| Is surface water affected? No | Nearest/Affected SW Name: NA | |
| Off-Site Beneficial Use Impacts (Addresses/Locations): None | | |
| Report(s) on file? Yes | Where is report(s) filed? GeoTracker | |

| TREATMENT AND DISPOSAL OF AFFECTED MATERIAL | | | |
|---|---|---|---|
| **Material** | **Amount (Include Units)** | **Action (Treatment or Disposal w/Destination)** | **Date** |
| Tank | | Cleaned | 7/04 |
| Piping | | Valves removed and pipelines sealed | 10/04 |
| Free Product | Not Applicable | | |
| Soil | Not Applicable | | |
| Groundwater | Not Applicable | | |
| Barrels | Not Applicable | | |

MAXIMUM DOCUMENTED POLLUTANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP

| POLLUTANT | Soil (ppm) | | Water (ppb) | | POLLUTANT | Soil (ppm) | | Water (ppb) | |
|---|---|---|---|---|---|---|---|---|---|
| | **Before** | **After** | **Before** | **After** | | **Before** | **After** | **Before** | **After** |
| **TPH (Gas)** | 10000Z | 3,200 | 8570Z | NA | **Benzene** | 23U | 0.005 | NA | |
| **TPH (Diesel)** | 2700LG | 2,700 | 5000U | NA | **Toluene** | 23U | 0.005 | NA | |
| **JP-5** | 9200 | NA | 89000 | NA | **Ethylbenzene** | 0.0025J | 0.0025J | NA | |
| **Bunker Fuel** | 1100U | 56 | NA | NA | **Xylenes** | 0.004J | 0.004J | NA | |
| **Motor Oil** | 170HG | 56 | 5000U | NA | **MTBE** | NA | NA | NA | |

**Comments (Depth of Remediation, etc.):**
NA and blanks are not analyzed. Soil results reported in Characterization of USTs Report (Tetra Tech EMI 2001) and Field Summary Report (ChaduxTt 2009).

Groundwater sufficient to install monitoring wells was not encountered at this tank. A grab groundwater sample was collected from one soil boring. Due to the likelihood of product contamination, the data presented above is suspect.

1998 sampling event - TPH-gasoline exceeded the Fuel Product Action Levels (FPAL) in 2 of the 4 soil boring samples and TPH-jet fuel exceeded the FPAL in one soil sample collected from greater than 21.1 feet bgs.

Soil resampled on 6/11/2009 – The "After" concentrations above represent data from this event. Soil from 17'bgs (TD) was sampled. The data indicates that contaminant attenuation may be occurring naturally and will likely continue.

## IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Site Management Requirements: Deed restrictions require approval from the Navy for excavations deeper than 5 feet and prohibit use or access to the closed-in-place tank. The Deed restriction consists of a 150-foot perimeter beyond the UST walls as established by a Covenant to Restrict Use of Property (CRUP) recorded in Contra Costa County on 3/29/2010.

| Monitoring Wells Decommissioned: None | Number Decommissioned: NA | Number Retained: NA |
|---|---|---|

List Enforcement Actions Taken: Board Order 95-235, Board Order 97-134, Board Order 97-125

List Enforcement Actions Rescinded:

## V. TECHNICAL REPORTS, CORRESPONDENCE ETC. THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

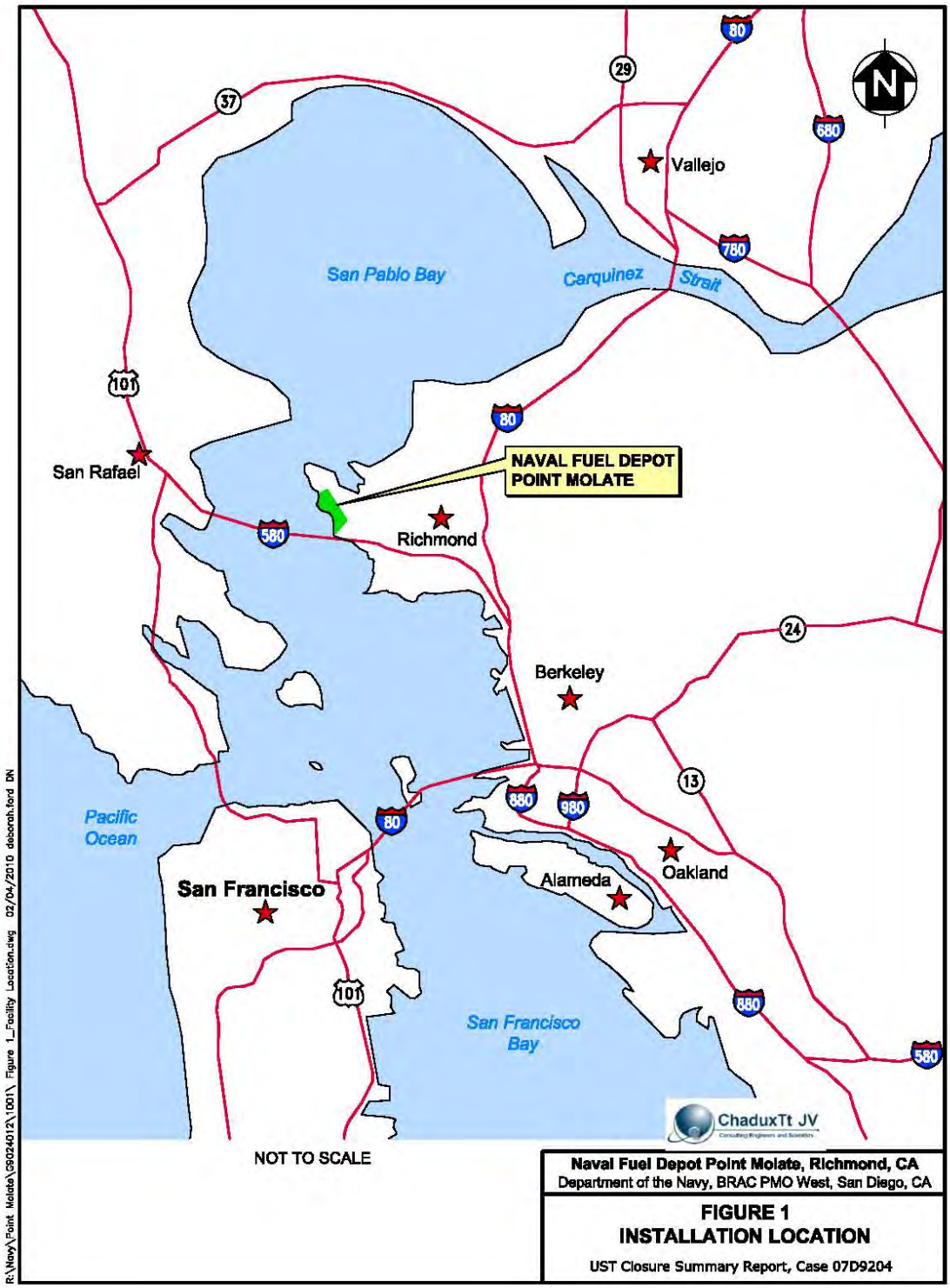
| Title | Date |
|---|---|
| Final Fuel Product Action Level Development Report, Former Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 8/01 |
| Characterization of USTs and Fuel Pipelines Final Report, Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 9/01 |
| Final Corrective Action Plan, Former Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 3/02 |
| Final Post-Construction Summary Report Closure of the UST, Pipeline, and Valve Box Systems Former Naval Fuel Depot Point Molate, Richmond, CA (Innovative Technical Solutions, Inc.) | 11/05 |
| Final Basewide Groundwater Monitoring Report July 2005 Sampling Event Naval Fuel Depot Point Molate, Richmond, CA (CDM Federal Programs Corp.) | 12/05 |
| Final Basewide Groundwater Monitoring Report May 2006 Sampling Event Naval Fuel Depot Point Molate, Richmond, CA (Jonas & Associates) | 9/06 |
| Draft Final Basewide Groundwater Monitoring Report Dry Season 2006 Sampling Event Naval Fuel Depot Point Molate, Richmond, CA (Jonas & Associates) | 4/07 |
| Field Summary Letter Report: Hillside Underground Storage Tank Soil Sampling, Naval Fuel Depot Point Molate, Richmond, CA (ChaduxTt) | 12/09 |
| Groundwater Monitoring Summary Report, September 2008 Dry Season and April 2009 Wet Season Sampling Events, Former Naval Fuel Depot Point Molate, Richmond, CA (Barajas & Associates) | 1/10 |

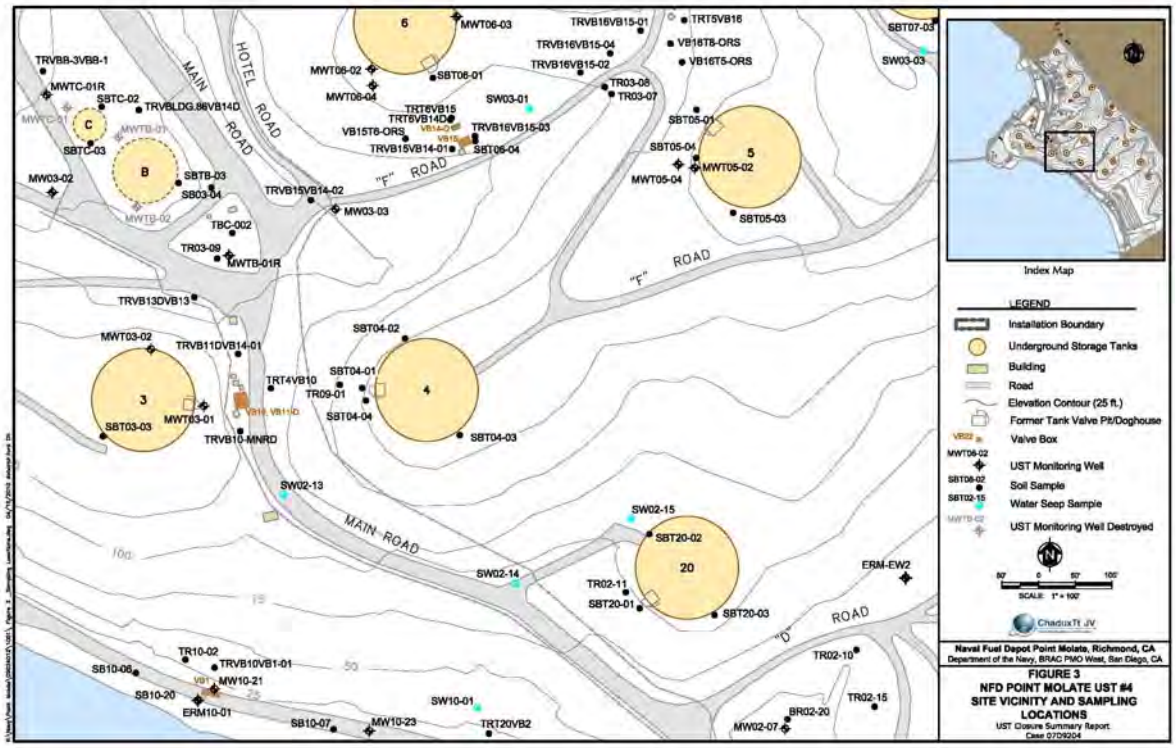
## VI. ADDITIONAL COMMENTS, DATA, ETC.

Corrective Action Plan for the UST, pipeline, and valve box systems was submitted in 2002 and implemented in 2004. All tanks were emptied of any standing water, cleaned and sealed. Pipelines on the hillsides were flushed and plugged. Tanks 1-20 were closed-in-place and sealed. Soil removal with confirmation sampling was conducted at the following hot-spots: Valve Box 2, Seep SW02-03, Seep SW03-01, and Seep SW05-01.

Groundwater at UST#4 was insufficient to install monitoring wells. Drilling deeper than bedrock is impractical.

Site Maps


80
29
37
N
680
Vallejo
780
San Pablo Bay
Carquinez Strait
101
80
San Rafael
NAVAL FUEL DEPOT
POINT MOLATE
580
Richmond
24
Berkeley
13
880
980
Pacific Ocean
80
Oakland
Alameda
San Francisco
101
880
San Francisco Bay
580
ChaduxTt JV
NOT TO SCALE
Naval Fuel Depot Point Molate, Richmond, CA
Department of the Navy, BRAC PMO West, San Diego, CA
FIGURE 1
INSTALLATION LOCATION
UST Closure Summary Report, Case 07D9204
R:\Navy\Point Molate\G9024012\1001\ Figure 1_Facility Location.dwg 02/04/2010 deborah.ford DN




This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


December 7, 2007
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #7, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9207)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


October 23, 2007
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #9, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9205)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

for Curtis T Scott
2007.10.23
07:48:47 -07'00'

Bruce H. Wolfe
Executive Officer

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


January 18, 2008
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #10, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9210)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

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(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


February 6, 2008
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #11, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9211)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

October 2, 2012 (GVL)
Geotracker Global ID: T0609592138

City of Richmond
Attn. Mr. Carlos Privat
Assistant City Attorney
P.O. Box 4046
Richmond, CA 94804-1630
Via email: Carlos_Privat@ci.richmond.ca.us

**Subject: No Further Action for Underground Storage Tank #12, Former Naval Fuel Depot, Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9212)**

Dear Mr. Privat:

This letter confirms that based on the available information, and with the provision that the information provided is accurate and representative of site conditions, site investigation and corrective actions are complete and no further action (NFA) is required for the sites summarized below:

| Site Name | GeoTracker Case ID | Regional Water Board Case No. |
|---|---|---|
| UST #12 | T10000001151 | 07D9212 |
| | | |

## Basis and Assumptions

This NFA status applies only to releases of petroleum fuel and fuel constituents associated with the sites referenced above. While the information provided indicates that the above-referenced site is satisfactorily cleaned up to standards consistent with open space land use, we may reconsider these findings should land use change or new information be discovered regarding previously undetected contamination.

This NFA is based on the assumption that shallow groundwater beneath the site is not suitable for drinking water or other potential uses, such as landscape and garden irrigation, and will not be used without further assessment and mitigation of potential risks.

## Conditions and Requirements

Residual petroleum contamination remains in the subsurface. To ensure protection of public health, safety, or the environment, and to be consistent with the land and groundwater use assumptions above, the following restrictions have been imposed:

- No residential land use: The site cannot support residential use due to potentially unacceptable direct contact and potential vapor intrusion risks from residual petroleum contamination in soil.
- No grading, excavation, or subsurface activities without a soil management plan: Any work involving soil excavation, trenching, or groundwater contact must be conducted pursuant to the July 20, 2012 Point Molate Soil Management. The plan includes procedures for proper notification, handling, and disposal of any potentially contaminated soil or groundwater encountered during construction. Current and future site workers, tenants, and landowners must be notified of the soil management requirements for the property.
- No shallow groundwater use: Shallow groundwater beneath the site cannot be used for drinking water or irrigation due to the potential risk from residual petroleum contamination.
- Notify Regional Water Board – land use change: The Regional Water Board must be notified in writing of any proposed changes in land or groundwater use at the site. Formal Regional Water Board concurrence is required.
- Decommission monitoring wells: Any monitoring wells that will no longer be used must be properly destroyed pursuant to requirements of the Contra Costa County Environmental Health Division. For information regarding these requirements, please contact the Contra Costa County Environmental Health Division at (925) 692-2500. Documentation of well destruction shall be submitted to the Regional Water Board.

## Land Use Controls/Covenants

This NFA status requires a deed restriction to secure the above conditions and requirements necessary to protect public health, safety, or the environment. The deed restriction was recorded on March 29, 2010 at the Contra Costa County Recorder's Office located at 555 Escobar St., Martinez, California.

## Closing

The Regional Water Board may require a separate cost recovery agreement for regulatory oversight with any future landowner in order to evaluate and to review any proposed change in land or groundwater use.

Attached please find the uniform UST closure letter and site closure summary. Please contact George Leyva of my staff at (510) 622.2379 or GLeyva@waterboards.ca.gov, if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

Attachments: Uniform Case Closure Letter
Site Closure Summary Form

cc w/atts:

Contra Costa County, Attn.: Paul Andrews, pandrews@hsd.co.contra-costa.ca.us
Terraphase Engineering, Attn.: Bill Carson, william.carson@terraphase.com
Joan Garrett, PMCAC Chair, joan@vbsi.com

October 2, 2012 (GVL)
Geotracker Global ID: T0609592138

City of Richmond
Attn. Mr. Carlos Privat
Assistant City Attorney
P.O. Box 4046
Richmond, CA 94804-1630
Via email: Carlos_Privat@ci.richmond.ca.us

**Subject: Uniform Case Closure Letter, UST #12, Former Naval Fuel Depot, Point Molate, Regional Water Board Case No. 07D9212**

Dear Mr. Privat:

This letter confirms the completion of a site investigation and corrective action for the subject underground storage tank located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the underground storage tank is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, we find that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action (NFA) related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our offices if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

# SITE CLOSURE SUMMARY

## Former US Naval Fuel Depot Point Molate UST # 12

## September 6, 2012

| 1. AGENCY INFORMATION | |
|---|---|
| **Agency Name**: SF Bay Regional Water Quality Control Board | **Address**: 1515 Clay Street, Suite 1400 |
| **City/State/Zip**: Oakland, CA 94612 | **Phone**: (510) 622-2300 |
| **Responsible Staff Person**: George Leyva | **Title**: Engineering Geologist |
| **Division**: Groundwater Protection | **Program**: SCP |

| 2. SITE AND FILE INFORMATION | |
|---|---|
| **Site Name**: UST # 12 | |
| **Parent Military Base**: Former Naval Fuel Depot Point Molate | |
| **Site Address**: 1000 Western Drive, Building #6, Richmond, California | |
| **Site Latitude (decimal degrees):** | **Longitude:** |
| **Site Type**: Military UST | |
| **WB Case No.**: 07D9212 | **GeoTracker Case ID:** T10000001151 |
| **WB File No. :** 2119.1057 | **Paperless Office ID**: T0609592138 |

**3. RESPONSIBLE PARTY**:

**Company/Agency**: City of Richmond
**Contact Name**: Carlos Privat,
**Contact Title**: Assistant City Attorney
**Street Address**: 440 Civic Center Plaza
**City, State, Zip Code**: P.O. Box 4046, Richmond, CA 94804-1630
**Tel. No.**: (510) 620-6509

E-mail: Carlos_Privat@ci.richmond.ca.us

**4. SITE DESCRIPTION, LAND USE, AND BENEFICIAL USE**

**Site Size and Description**: The volume of UST # 12 is app. 50,000 bbls or 2,100,000 gals.

**Vicinity**: All USTs at the Former US Naval Fuel Depot are located on the steep hillsides of the site.

**Site Plan Map Attached**: Yes

**Current Site Use(s)**: Open Space – Deed restrictions prevent any use within 100 ft. of the tank other than open space.

**Future Land Use(s)**: Open space

**Beneficial Uses**: The San Francisco Bay is immediately adjacent to this site. This Regional Water Board's Basin Plan identifies the uses for the San Francisco Bay as COMM, EST, IND, MIGR, NAV, PROC, RARE, REC-1, REC-2, SHELL, SPWN, WILD. Useable groundwater exists on-site in the thin mantle of colluvium on the bedrock but in low volumes. The Franciscan bedrock beneath the mantle has very low yield.

**Beneficial Use Exceptions**: GW qualifies for use exceptions of State Board Res. 88-63 based on low yield.

# SITE CLOSURE SUMMARY
# Former US Naval Fuel Depot Point Molate UST # 12

**5. RELEASE INFORMATION**

| Source (e.g., UST, AGT, pipeline, sump, wash rack, etc.) | Capacity or dimensions | Contents | How Closed? | Date | Latitude (decimal degrees) | Longitude (decimal degrees) |
|---|---|---|---|---|---|---|
| UST # 12 | 2,100,000 gal | Bunker, Diesel & F-76 | UST Emptied & Cleaned | 2/2005 | 37.951863 | -122.413069 |
| | | | | | | |
| *<insert more rows as needed using the table menu/functions>* | | | | | | |

**6. SITE CHARACTERIZATION AND CONCEPTUAL SITE MODEL**

**Cause and description of release**:

| | |
|---|---|
| **Groundwater (GW)** | **Depth to first GW**: 26' Below TOC |
| | **GW gradient direction**: Westerly |
| | **GW sampled?**: 5/2012 |
| **GW monitoring wells** | **GW monitoring wells installed?**: MWT12-03 |
| | **Total number of monitoring wells used in support of closure decision**: 4 |
| | **Status of MWs**: Three of the 4 wells are to be abandoned this year. |

**7a. SITE REMEDIATION AND TREATMENT**

**Describe basis for cleanup standards**: *Cleanup Standards were developed for the Presidio in SF and used at this site by comparison.*

**Describe risk-based approach to develop cleanup standards:** *The Presidio cleanup standards were developed using a site specific Ecological and Human Health risk assessment. The Navy argued that the Point Molate site was equal to the Presidio and therefore, should be allowed to re-use the Presidio's cleanup standards known as Fuel Product Action Levels or FPALs.*

**Describe remediation efforts for soil and groundwater** Only product inside of the UST was cleaned up. Since fuel is not migrating and is not impacting water quality nor potential receptors, contamination beyond the UST was left in place relying on MNA. TPH-diesel in soil exceeded Fuel Product Action Level (FPAL) at depth 25.8 feet bgs in SBT12-03 and 30.1 feet bgs in SBT12-02 in 1998, and at 25.5 feet bgs in SBT12-05 in 2009. TPH-motor oil exceeded FPAL at 25.5 feet bgs in SBT12-05 in 2009. However, chemicals in groundwater did not exceed applicable FPALs during the most recent sampling event in 2011.

# SITE CLOSURE SUMMARY
# Former US Naval Fuel Depot Point Molate UST # 12

**7b. PRE-REMEDIATION AND POST-REMEDIATION (MAX. RESIDUAL) CONTAMINANT CONCENTRATIONS**

| *CONTAMINANT* | *SOIL (ppm)* | | *GW (ppb)* | | *SOIL VAPOR (ppb or ug/m$^3$)* | |
|---|---|---|---|---|---|---|
| | Before | After | Before | After | Before | After |
| TPH-gasoline | 1150 | | 30 | NA | NA | NA |
| TPH-diesel | 54,000 | | 3460 | 120 | NA | NA |
| TPH-motor oil | 5,800 | | 500 | 210 | NA | NA |
| Benzene | 0.00043 | | 0.5 | NA | NA | NA |
| TPH JP-5 | 5,800 | | 500 | 60 | NA | NA |
| Toluene | 0.0016 | | 10 | NA | NA | NA |
| Ethylbenzene | 0.005 | | 0.5 | NA | NA | NA |
| Xylenes | 0.33 | | 1 | NA | NA | NA |
| MTBE | NA | | NA | NA | NA | NA |
| Napthalene | NA | | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA | NA | NA |

**8. CLOSURE CRITERIA CHECKLIST** (include comments as necessary)

***a) Pollutant sources are identified and evaluated***

***Corrective Action Plan for the UST, pipeline, and valve box systems was implemented in 2004. The UST was emptied of any standing water, cleaned and sealed. Pipelines on the hillsides were flushed and plugged. Semiannual groundwater monitoring has been conducted at the tank.***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***b) The site is adequately characterized***

***Yes, per "3.0 SITE CHARACTERIZATION, Underground Storage Tank #12, Closure Summary Report" March 2010***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***c) Exposure pathways, receptors, and potential risks, threats, and other environmental concerns are identified and assessed***

- √ ***The Human Health and ecological receptors for the site could potentially be exposed from the subsurface petroleum contamination. An existing Deed Restriction is in place to prevent exposure to those receptors.***
- √ ***Groundwater & vapor migration are potential pathways, however, the site's deed restriction prevents the use of the site for anything other than open space.***
- √ ***The UST site is approximately 1,500 feet from the SF Bay and existing petroleum contamination will likely not effect its beneficial uses.***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***d) Pollutant sources are remediated to the extent feasible***

- √ ***The technical and economic feasibility of source remediation methods/technologies have been evaluated and it has been determined that the remnant petroleum contamination may remain in place without detrimental effects to the environment.***
- √ ***Feasible source remediation technologies have been implemented***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***e) Unacceptable risks to human health, ecological health, and sensitive receptors, considering current and future land and water uses, are mitigated***

- √ ***Necessary & appropriate corrective actions have been implemented***
- √ ***Confirmation sampling, monitoring, and/or risk management measures demonstrate that risks are mitigated***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***f) Unacceptable threats to groundwater and surface water resources, considering existing and potential beneficial uses, are mitigated***

- √ ***Necessary & appropriate corrective actions have been implemented***
- √ ***Confirmation sampling, monitoring, and/or risk management measures demonstrate that threats are mitigated***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***g) Groundwater plumes are stable or decreasing[1]***

- √ ***Appropriate plume monitoring has confirmed the lateral and vertical extent over time***
- √ ***Spatial and temporal trends for pollutants, including parent and breakdown products, have been evaluated***
- √ ***Spatial and temporal trends for natural attenuation indicators have been evaluated***
- √ ***Evidence of breakdown to acceptable end products is documented***
- √ ***Plume concentrations are decreasing and the plume is not moving or expanding***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***h) Cleanup standards have been met or can be met in a reasonable timeframe***

- √ ***The anticipated timeframe for beneficial use of the affected and nearby water resources is approximately 25 to 30 years***
- √ ***The potential to adversely affect beneficial uses is assessed considering cleanup and beneficial use timeframes, hydrogeologic conditions, and the conceptual site model (CSM)***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***i) Risk management measures are appropriate, documented, and do not require future Water Board oversight***

- √ ***Necessary risk management measures (land use restrictions) are implemented, documented and recorded.***
- √ ***Risk management measures do not require future Water Board oversight***

***Comments: 'indicate yes if criteria is met or explain any discrepancies"***

***[1] For petroleum groundwater plumes, stability is a sufficient criterion. For solvent or other non-petroleum groundwater plumes, closure should be supported by evidence of a decreasing plume.***

**9. BASIS AND ASSUMPTIONS**

*"This no further action status applies only to releases of petroleum fuel and fuel constituents at the subject site.*

*Cleanup standards for this site were based on recreational land use.*

*Assumes that groundwater should not be used for drinking water or other uses"*

**10a. CONDITIONS AND REQUIREMENTS**

*"Water Board staff shall be notified of any changes in land or groundwater use and may reconsider the NFA status based on such changes"*

*"Any monitoring wells no longer used should be properly decommissioned in accordance with the substantive requirements of local regulatory agency monitoring well abandonment/destruction/decommissioning requirements. Please submit documentation of well decommissioning to the Regional Water Board."*

**10b. POST NFA REQUIREMENTS**

*Board Order No. R2-2011-0087 requires a UST Management Plan for the existing tanks; due March 2013.*

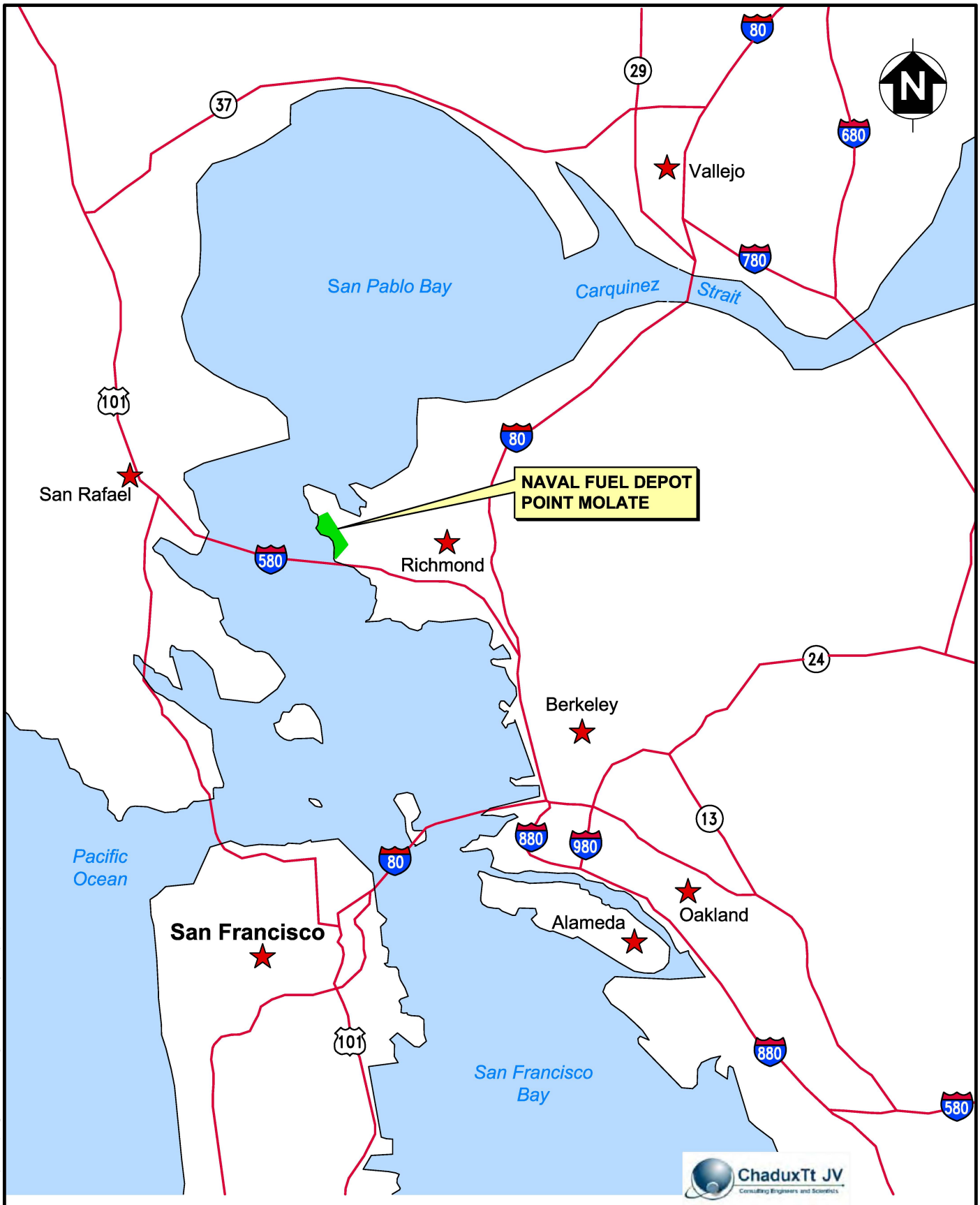
**11. ADDITIONAL COMMENTS**

# SITE CLOSURE SUMMARY
# Former US Naval Fuel Depot Point Molate UST # 12

| **12. TECHNICAL REPORTS, CORRESPONDENCE, ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON** | |
|---|---|
| **REPORTS ON FILE** | **Where are report(s) filed?**: *Paperless Office* |
| **Title** | **Date** |
| Product Recovery Summary Report 2, Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 6/01 |
| Final Fuel Product Action Level Development Report, Former Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 8/01 |
| Characterization of USTs and Fuel Pipelines Final Report, Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 9/01 |
| Final Corrective Action Plan, Former Naval Fuel Depot Point Molate, Richmond, CA (Tetra Tech EMI) | 3/02 |
| Final Post-Construction Summary Report Closure of the UST, Pipeline, and Valve Box Systems Former Naval Fuel Depot Point Molate, Richmond, CA (Innovative Technical Solutions, Inc.) | 11/05 |
| Final Basewide Groundwater Monitoring Report July 2005 Sampling Event Naval Fuel Depot Point Molate, Richmond, CA (CDM Federal Programs Corp.) | 12/05 |
| Final Basewide Groundwater Monitoring Report May 2006 Sampling Event Naval Fuel Depot Point Molate, Richmond, CA (Jonas & Associates) | 9/06 |
| Draft Final Basewide Groundwater Monitoring Report Dry Season 2006 Sampling Event Naval Fuel Depot Point Molate, Richmond, CA (Jonas & Associates) | 4/07 |
| Basewide Groundwater Monitoring Report March 2008 Wet Season Sampling Event, Naval Fuel Depot Point Molate, Richmond, CA (CDM Federal Programs) | 7/08 |
| Field Summary Letter Report: Hillside Underground Storage Tank Soil Sampling, Naval Fuel Depot Point Molate, Richmond, CA (ChaduxTt) | 12/09 |
| Groundwater Monitoring Summary Report, September 2008 Dry Season and April 2009 Wet Season Sampling Events, Former Naval Fuel Depot Point Molate, Richmond, CA (Barajas & Associates) | 1/10 |

**Notes and Abbreviations:**
GW – Groundwater
TPH – Total Petroleum Hydrocarbons
NA - Not Analyzed

Attachments: Site Maps UST #12




NOT TO SCALE

**Naval Fuel Depot Point Molate, Richmond, CA**
Department of the Navy, BRAC PMO West, San Diego, CA

**FIGURE 1**
**INSTALLATION LOCATION**

UST Closure Summary Report, Case 07D9212

R:\Navy\Point Molate\G9024012\1001\ Figure 1_Facility Location.dwg 01/19/2010 deborah.ford DN

Index Map

LEGEND

- Underground Storage Tanks
- Aboveground Storage Tanks
- Building
- Road
- Drainage Area
- Elevation Contour (25 ft.)

200' 0 200' 400'

SCALE: 1" = 400'

ChaduxTt JV
Consulting Engineers and Scientists

**Naval Fuel Depot Point Molate, Richmond, CA**
Department of the Navy, BRAC PMO West, San Diego, CA

# FIGURE 2
# NFD POINT MOLATE
# UST LOCATIONS

UST Closure Summary Report
Case 07D9212

R:\Navy\Point Molate\G9024012\1001\ Figure 2_UST Locations.dwg 01/22/2010 deborah.ford DN

TR05-02
SBT10-02
SBT10-03
10
TR05-01
SW05-01
MWT12-03
CHT12-03
SBT12-05
MWT12-02
MWT12-04
12
SBT12-01
SBT09-03
9
SBT09-02
SBT09-01
66
TR04-02
VB22
TRVB21VB21-01
TRT21VB22
SSBK-04
SSBK-05
SW04-02
TR03-04
TRT9VB21
VB21
SW04-01
125
TRVB21VB20-01
TRVB22VB21-02
"G" ROAD
RIDGE ROAD
65
102
67
52
57
58
59
31
32
63
21
350
325
375
400
300
275
250
225
200
175
150
100

Index Map

LEGEND

- Installation Boundary
- Underground Storage Tanks
- Aboveground Storage Tank
- Building
- Road
- Elevation Contour (25 ft.)
- Former Tank Valve Pit/Doghouse
- VB22 — Valve Box
- MWT06-02 — UST Monitoring Well
- SBT08-02 — Soil Sample

N

50' 0 50' 100'

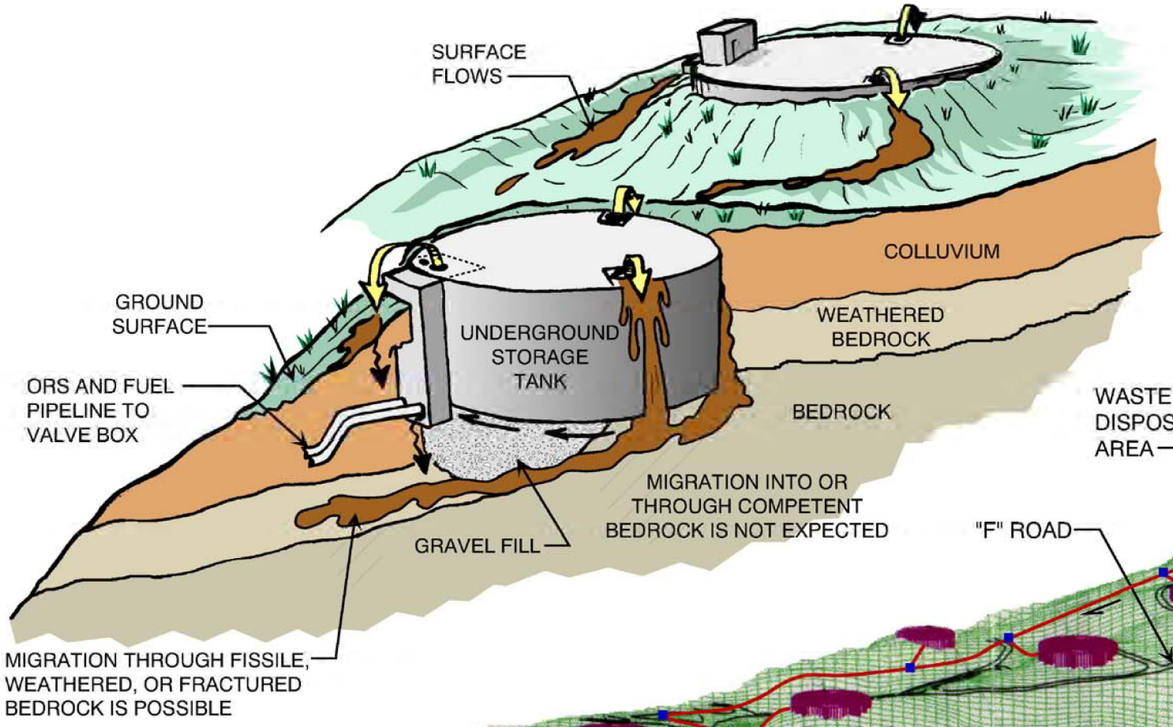
SCALE: 1" = 100'

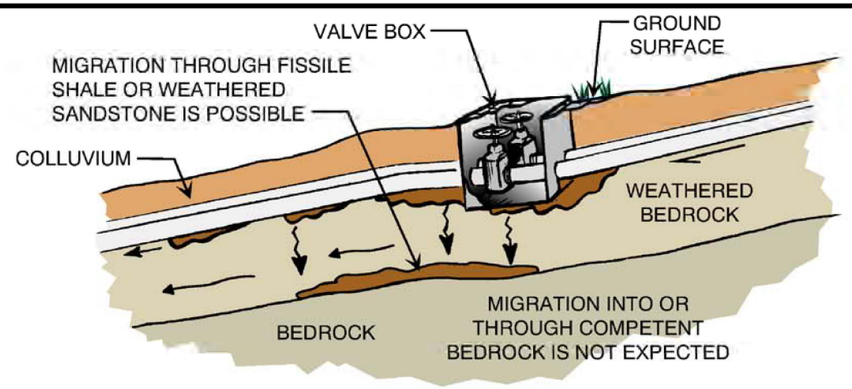
ChaduxTt JV
Consulting Engineers and Scientists

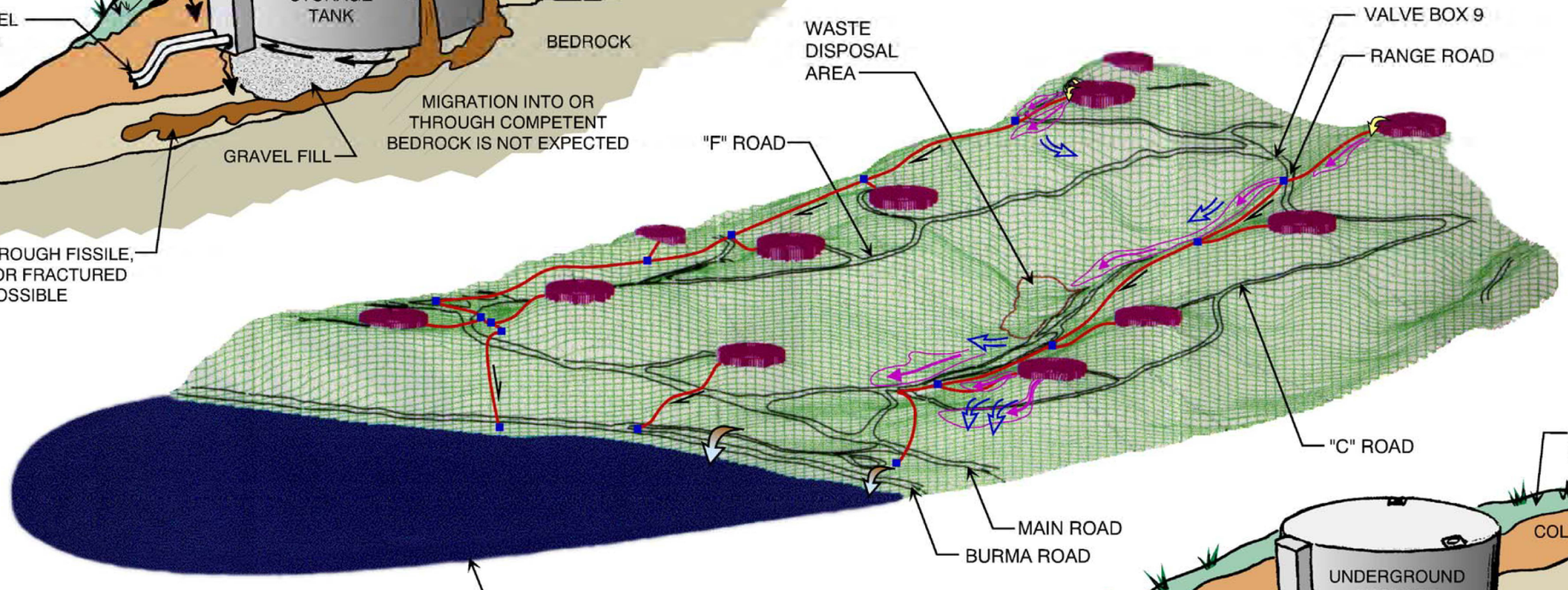
**Naval Fuel Depot Point Molate, Richmond, CA**
Department of the Navy, BRAC PMO West, San Diego, CA

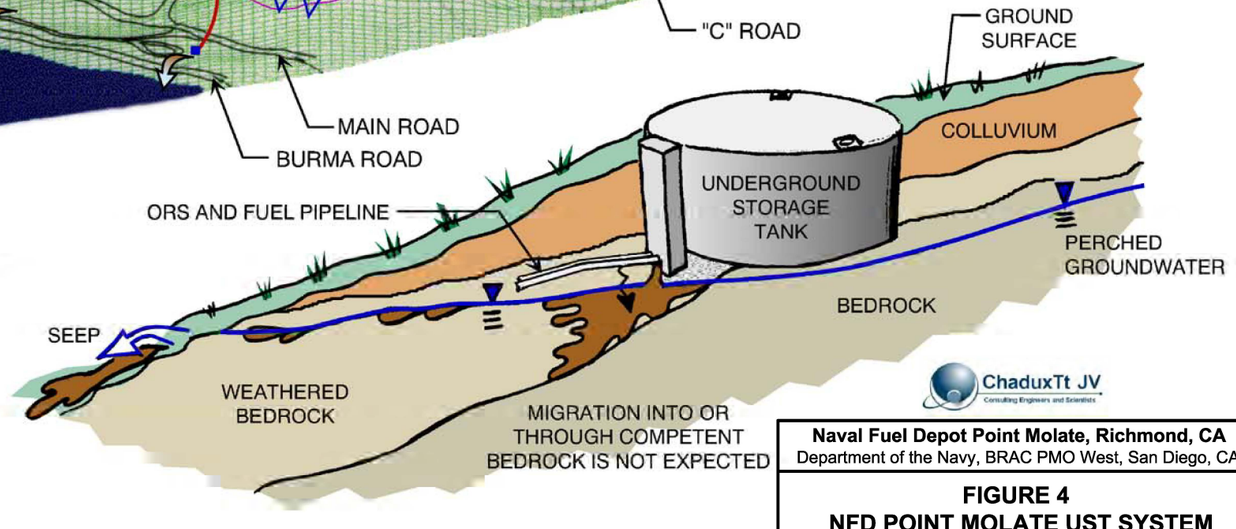
**FIGURE 3**
**NFD POINT MOLATE UST #12**
**SITE VICINITY AND SAMPLING LOCATIONS**
UST Closure Summary Report
Case 07D9212

R:\Navy\Point Molate\G9024012\1001\ Figure 3 _Sampling Locations.dwg 01/22/2010 deborah.ford DN




LEGEND

- SEEP
- VALVE BOX
- PIPELINE (BELOW GROUND)
- INFILTRATION/PERCOLATION
- PREFERENTIAL FLOW ALONG PIPE BEDDING
- TANK OVERFLOW OR FUEL LEAKS
- SURFACE RUNOFF
- OFFSHORE DISCHARGE

NOTE: TANKS SHOWN IN ACTUAL LOCATION BUT ALL TANKS ARE UNDERGROUND.

ORS - OIL RECOVERY SYSTEM

Source: Tetra Tech. 2001a. Final Fuel Product Action Level Development Report, Naval Fuel Depot Point Molate. August

ChaduxTt JV
Consulting Engineers and Scientists

**Naval Fuel Depot Point Molate, Richmond, CA**
Department of the Navy, BRAC PMO West, San Diego, CA

**FIGURE 4**
**NFD POINT MOLATE UST SYSTEM**
**POTENTIAL RELEASE MECHANISMS**

UST Closure Summary Report
Case 07D9212

R:\Navy\Point Molate\09024012\1001_Figure 4 _Potential Release Mechanisms.dwg 01/22/2010 deborah.ford DN

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


March 13, 2008
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #14, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9214)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


December 12, 2007
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #16, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9216)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

# California Regional Water Quality Control Board
## San Francisco Bay Region

**Linda Adams**
*Secretary of Environmental Protection*

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

**Arnold Schwarzenegger**
*Governor*


December 13, 2007
File No. 2119.1057 (GVL)

Attn: Mr. Michael Bloom michael.s.bloom@navy.mil
U.S. Department of the Navy
BRAC Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

**SUBJECT: Underground Storage Tank (UST) Case Closure for UST #17, Former Naval Fuel Depot Point Molate, Richmond, Contra Costa County (Water Board Case No. 07D9217)**

Dear Mr. Bloom:

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

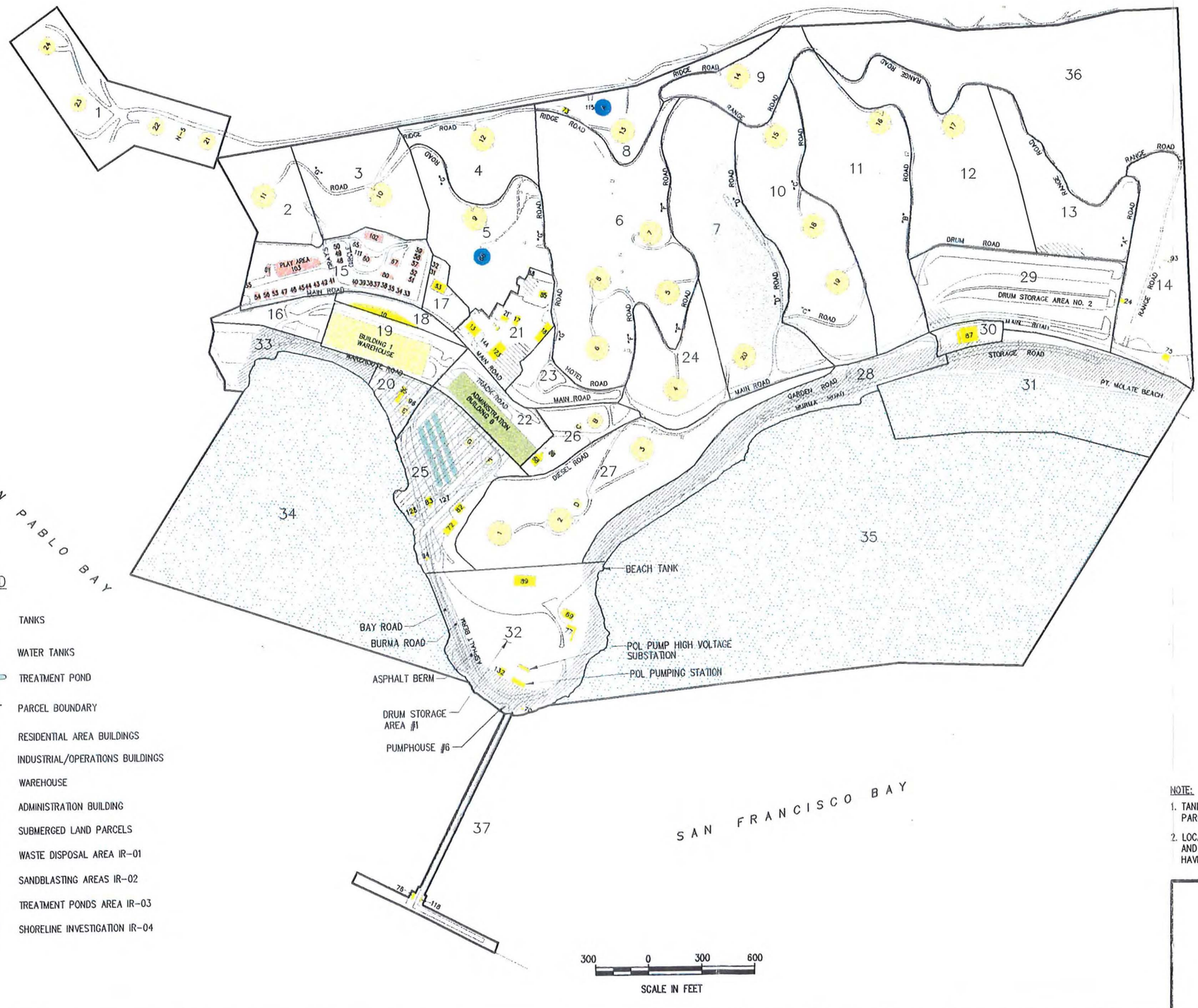
This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Bruce H. Wolfe
Executive Officer

# APPENDIX L
EBS PARCEL BOUNDARY MAP




| PARCEL NO. | ACRES |
|---|---|
| 1 | 10.4 |
| 2 | 4.8 |
| 3 | 8.4 |
| 4 | 6.2 |
| 5 | 9.3 |
| 6 | 22.3 |
| 7 | 16.7 |
| 8 | 4.8 |
| 9 | 4.7 |
| 10 | 13.2 |
| 11 | 14.9 |
| 12 | 14.4 |
| 13 | 7.5 |
| 14 | 9.7 |
| 15 | 4.8 |
| 16 | 2.3 |
| 17 | 1.4 |
| 18 | 1.7 |
| 19 | 4.4 |
| 20 | 1.6 |
| 21 | 4.4 |
| 22 | 4.0 |
| 23 | 2.8 |
| 24 | 7.0 |
| 25 | 9.4 |
| 26 | 3.3 |
| 27 | 15.4 |
| 28 | 7.4 |
| 29 | 11.6 |
| 30 | 1.3 |
| 31 | 18.2 |
| 32 | 14.3 |
| 33 | 3.4 |
| 34 | 42.8 |
| 35 | 91.5 |
| 36 | 26.1 |
| 37 | 2.7 |

NOTE:

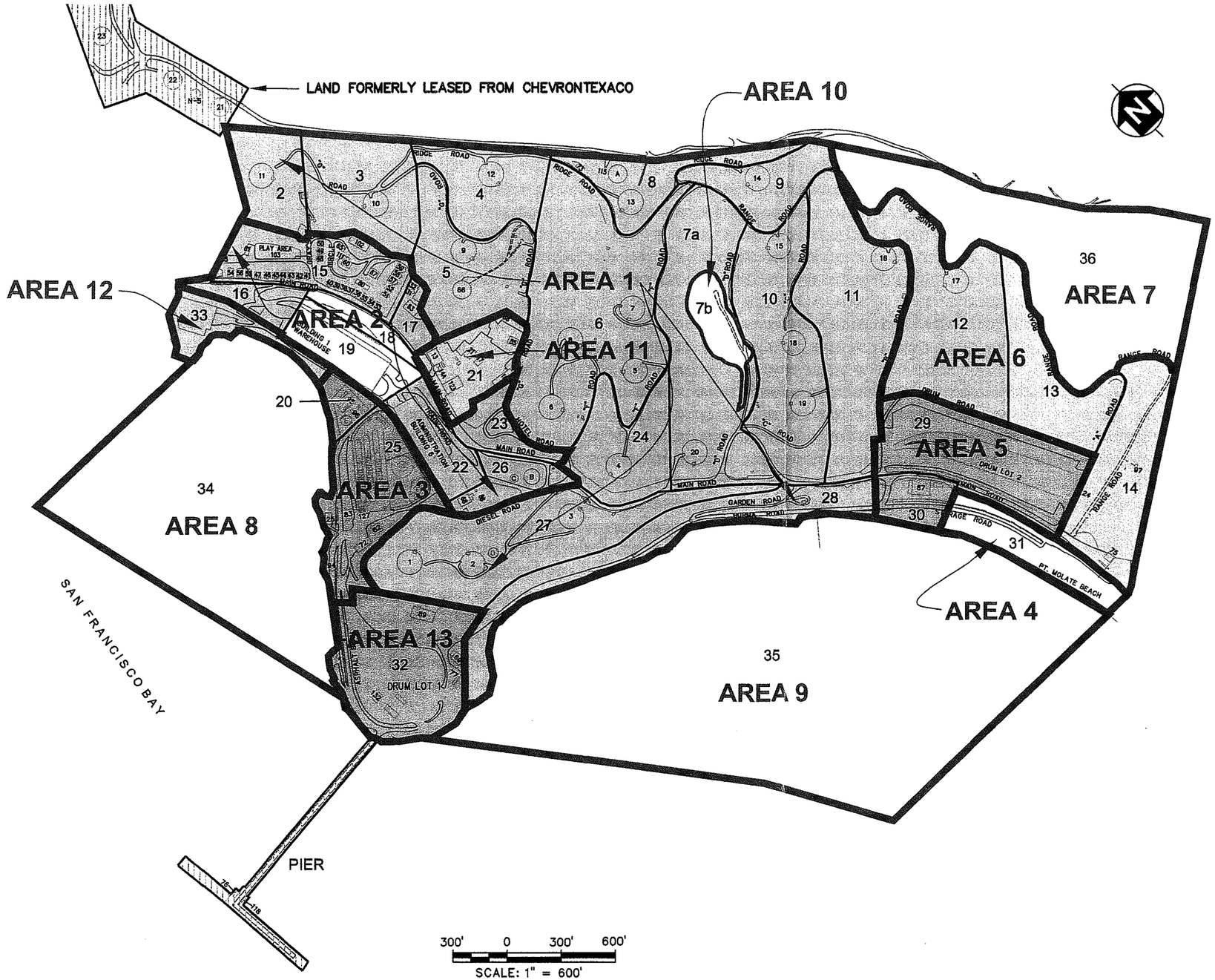
1. TANKS 21, 22, 23 AND 24 ARE GOVERNMENT OWNED. PARCEL 1 IS LEASED LAND
2. LOCATIONS OF TANK D, TANK N-5, BUILDING 72, BUILDING 75, AND BUILDING 95 ARE SHOWN FOR REFERENCE, BUT THEY ALL HAVE BEEN REMOVED.

# FIGURE 1-2
# PARCEL DELINEATIONS
# NAVAL FUEL DEPOT POINT MOLATE

DATE: 6/17/96

FILENAME: P:/4545MOL/DWG/FGPARCEL.DWG

# APPENDIX M
SEBS DISPOSAL AREA BOUNDARY MAP




ECP CATEGORIES

LEGEND

- 1 - Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)
- 2 - Areas where only release or disposal of petroleum products has occurred
- 3 - Areas where release of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action
- 4 - Areas where release of hazardous substances has occurred, and all remedial actions necessary to protect human health and the environment have been taken
- 5 - Areas where release of hazardous substances has occurred, and removal or remedial actions are under way, but all required remedial actions have not yet been taken
- 6 - Areas where release of hazardous substances has occurred, but required actions have not yet been implemented
- 7 - Areas that are not evaluated or require additional evaluation

PROPERTY NOT SUBJECT TO ECP

AREA 1 — DISPOSAL AREA

2 — UNDERGROUND STORAGE TANK

ECP — ENVIRONMENTAL CONDITION OF PROPERTY

NAVAL FUEL DEPOT POINT MOLATE
RICHMOND, CALIFORNIA

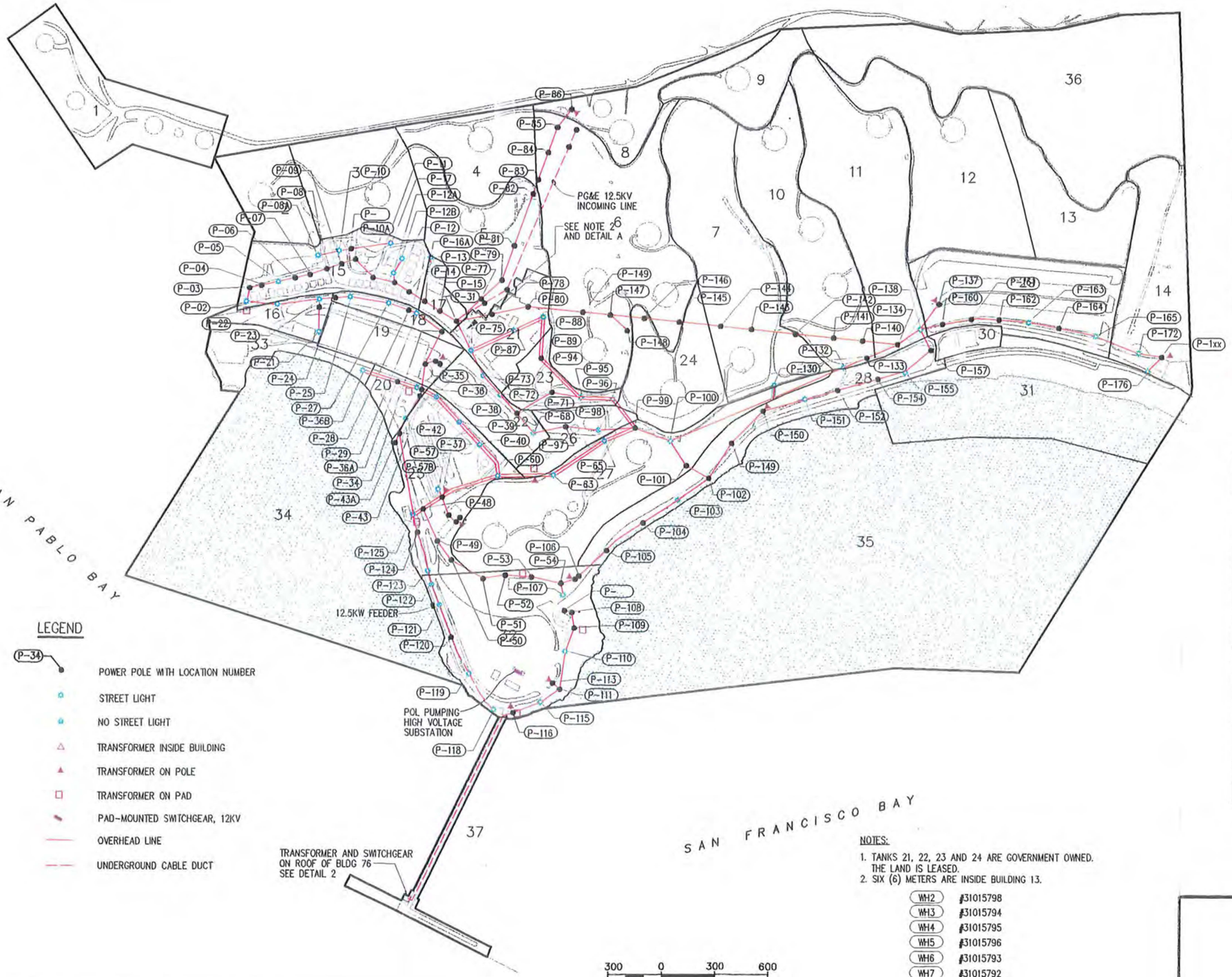
# FIGURE 7
# DISPOSAL AREAS

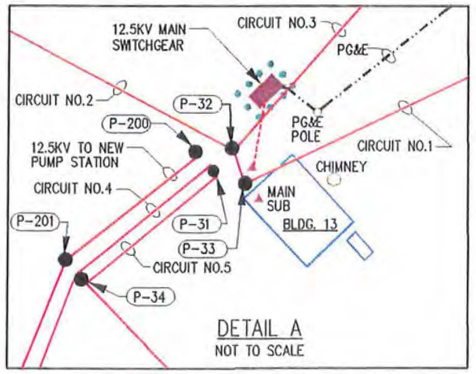
Tetra Tech EM Inc.

R:\Navy\Point Molate\G9016\0080101\1010_Disposal_Area1.dwg 02/27/2003 deborch.ford DN

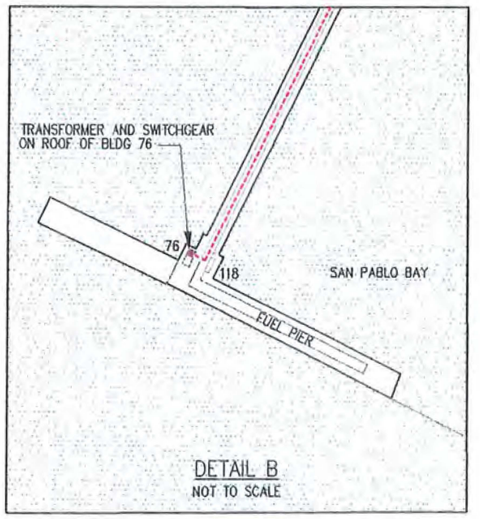
DS.A008.10016

# APPENDIX N
TRANSFORMER LOCATIONS




DETAIL A
NOT TO SCALE




DETAIL B
NOT TO SCALE

LEGEND

- POWER POLE WITH LOCATION NUMBER (P-34)
- STREET LIGHT
- NO STREET LIGHT
- TRANSFORMER INSIDE BUILDING
- TRANSFORMER ON POLE
- TRANSFORMER ON PAD
- PAD-MOUNTED SWITCHGEAR, 12KV
- OVERHEAD LINE
- UNDERGROUND CABLE DUCT

SCALE IN FEET: 300 0 300 600

NOTES:

1. TANKS 21, 22, 23 AND 24 ARE GOVERNMENT OWNED. THE LAND IS LEASED.
2. SIX (6) METERS ARE INSIDE BUILDING 13.

| | |
|---|---|
| WH2 | #31015798 |
| WH3 | #31015794 |
| WH4 | #31015795 |
| WH5 | #31015796 |
| WH6 | #31015793 |
| WH7 | #31015792 |

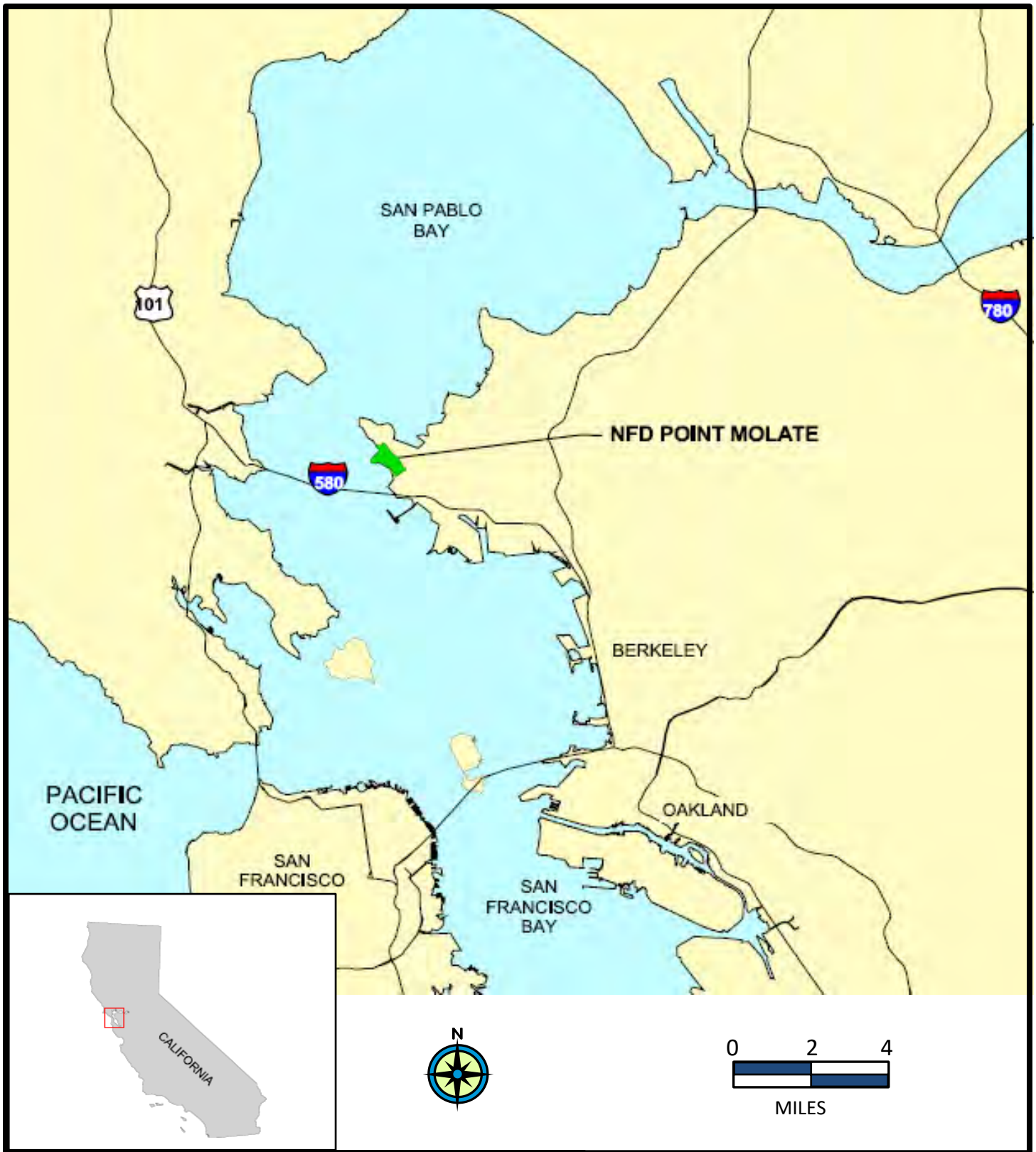
3. LOCATION OF TANK D, TANK N-5, BUILDING 72, BUILDING 75, AND BUILDING 95 ARE SHOWN FOR REFERENCE, BUT THEY ALL HAVE BEEN REMOVED.

SOURCE: WESTERN DIVISION – NAVAL FACILITIES ENGINEERING COMMAND, NAVY PUBLIC WORKS CENTER, DRAWING NO. 17,618.

# FIGURE 4-5
# ELECTRICAL SYSTEM
# NAVAL FUEL DEPOT POINT MOLATE

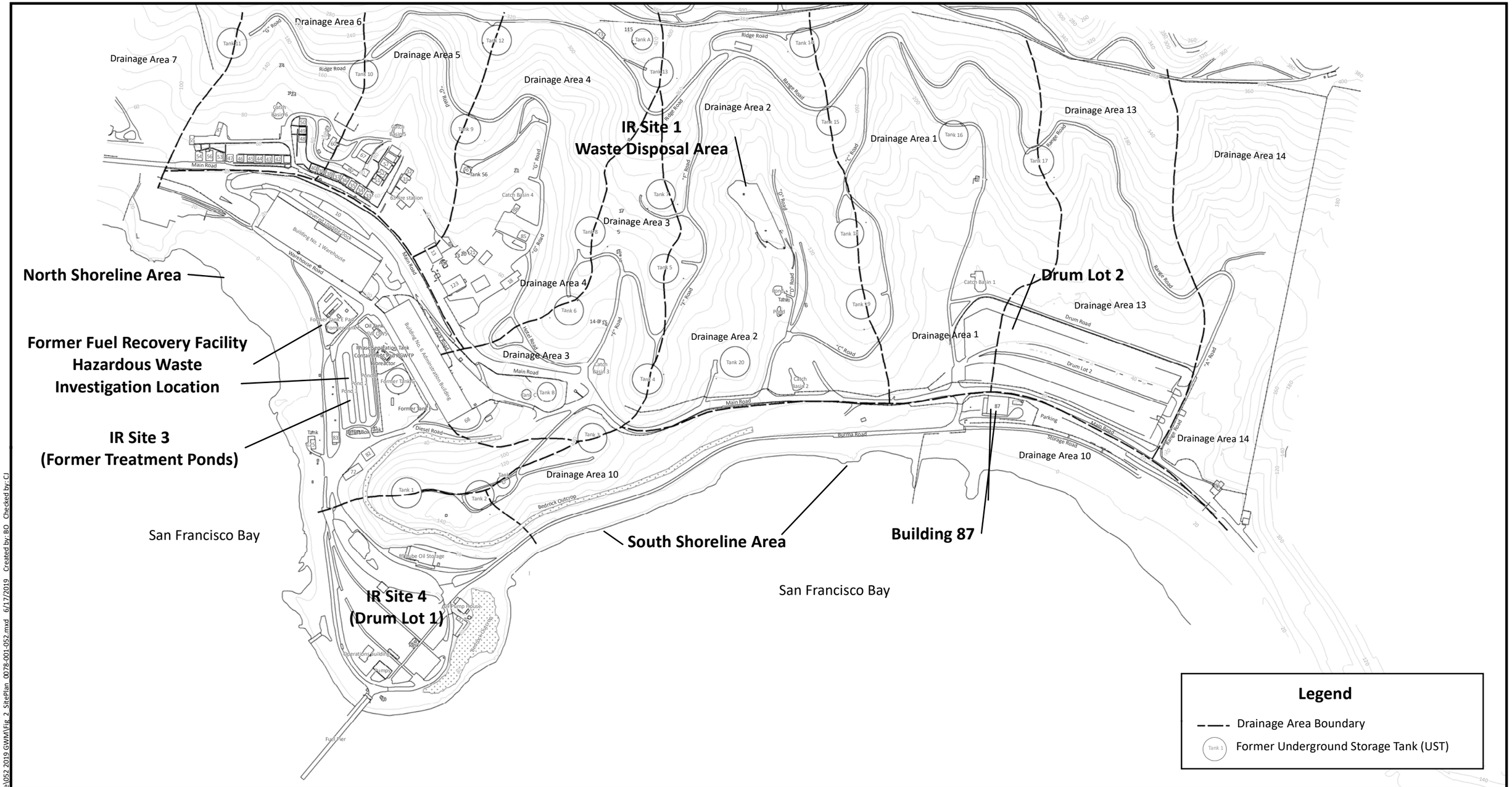
FILENAME: P:/45-W/.../FIG F -ELEC.DWG DATE: 8/1

# APPENDIX O
RECENT GROUNDWATER MONITORING FIGURES




| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: City of Richmond | **Site Vicinity Map** |
| terraphase engineering | PROJECT: Point Molate Site-Wide Groundwater Monitoring | |
| | PROJECT NUMBER: 0078.001.052 | **FIGURE 1** |

File Name: Fig_1_Site_Vicinity_Map_0001.001.029 Prepared by: EM Checked by: PTZ




SAFETY FIRST

terraphase engineering

| | |
|---|---|
| CLIENT: | City of Richmond |
| PROJECT: | Point Molate<br>Site-Wide Groundwater Monitoring |
| PROJECT NUMBER: | 0078.001.052 |

**Site Plan**

**FIGURE 2**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_2_SitePlan_0078-001-052.mxd 6/17/2019 Created by: BO Checked by: CJ

Drainage Area 7
Drainage Area 6
Drainage Area 5
Drainage Area 4
Drainage Area 3
Drainage Area 2
Drainage Area 1
Drainage Area 13
Drainage Area 14
Drainage Area 10

MW11-06
MW11-122
MW11-123
MW11-129
MW11-130
MW11-131
MW11-132
MW11-125
MW11-133
MW11-126
MW11-127
MW11-128
MW11-55R
MW11-19
PZ11-76R
MW11-85
EW-A
EW-B
EW-C
EW-D

MWT13-02
MWT15-02
MWT18-01
MWT19-01
MWT08-01
MWT05-02
MWT06-02
MWTC-01R
MWTB-01R
MW03-02
MWT03-02
MWT02-03
MW10-23
MW10-21
MW10-05
MW10-04
MW10-24
MW10-25
MW10-08
MW10-09
MW10-10
MW02-07
MW01-03
MW31-05
MW31-07
MW31-02
MW31-08
MW31-04
MW29-01
MW31-06
MW31-03
MW30-08

## Legend

| | |
|---|---|
| MW11-06 | Perimeter Well |
| MWT13-122 | IR Site 3 Contingency Trench Well |
| MWT13-133 | IR Site 3 Contingency Trench Upgradient Well |
| MWT13-02 | Open UST Well |
| MW03-02 | Drainage Area Well |
| MW29-03 | Drum Lot 2 Well |
| MW31-08 | Drum Lot 2 Interim Measure Performance Well |
| MW11-02 | Recently Removed from Groundwater Monitoring Well Network |
| MW10-17 | Destroyed Well |
| | Drainage Area Boundary |
| Tank 1 | Former Underground Storage Tank (UST) |

N

0 450 900 1,350 1,800 Feet

1 Inch = 450 Feet

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terraphase engineering

CLIENT: City of Richmond

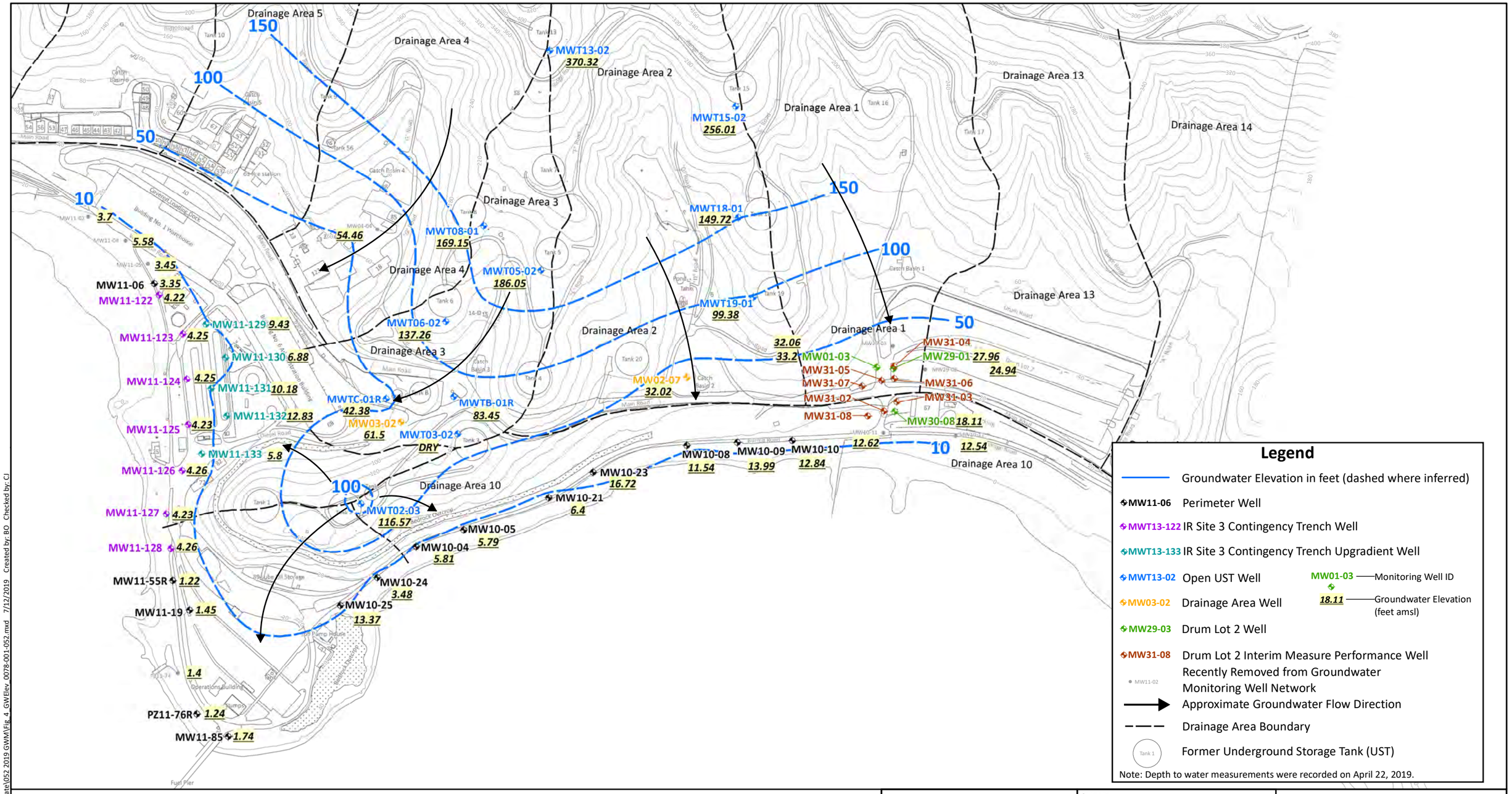
PROJECT: Point Molate
Site-Wide Groundwater Monitoring

PROJECT NUMBER: 0078.001.052

**Groundwater Monitoring Well Network**

**FIGURE 3**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_3_GWMonNtwk_0078-001-052.mxd Created by: BO Checked by: CJ




## Legend

- Groundwater Elevation in feet (dashed where inferred)
- MW11-06 — Perimeter Well
- MWT13-122 — IR Site 3 Contingency Trench Well
- MWT13-133 — IR Site 3 Contingency Trench Upgradient Well
- MWT13-02 — Open UST Well
- MW03-02 — Drainage Area Well
- MW29-03 — Drum Lot 2 Well
- MW31-08 — Drum Lot 2 Interim Measure Performance Well
- MW11-02 — Recently Removed from Groundwater Monitoring Well Network
- Approximate Groundwater Flow Direction
- Drainage Area Boundary
- Tank 1 — Former Underground Storage Tank (UST)

MW01-03 — Monitoring Well ID
18.11 — Groundwater Elevation (feet amsl)

Note: Depth to water measurements were recorded on April 22, 2019.

N

0 400 800 1,200 Feet

1 Inch = 400 Feet

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terraphase engineering

CLIENT: City of Richmond

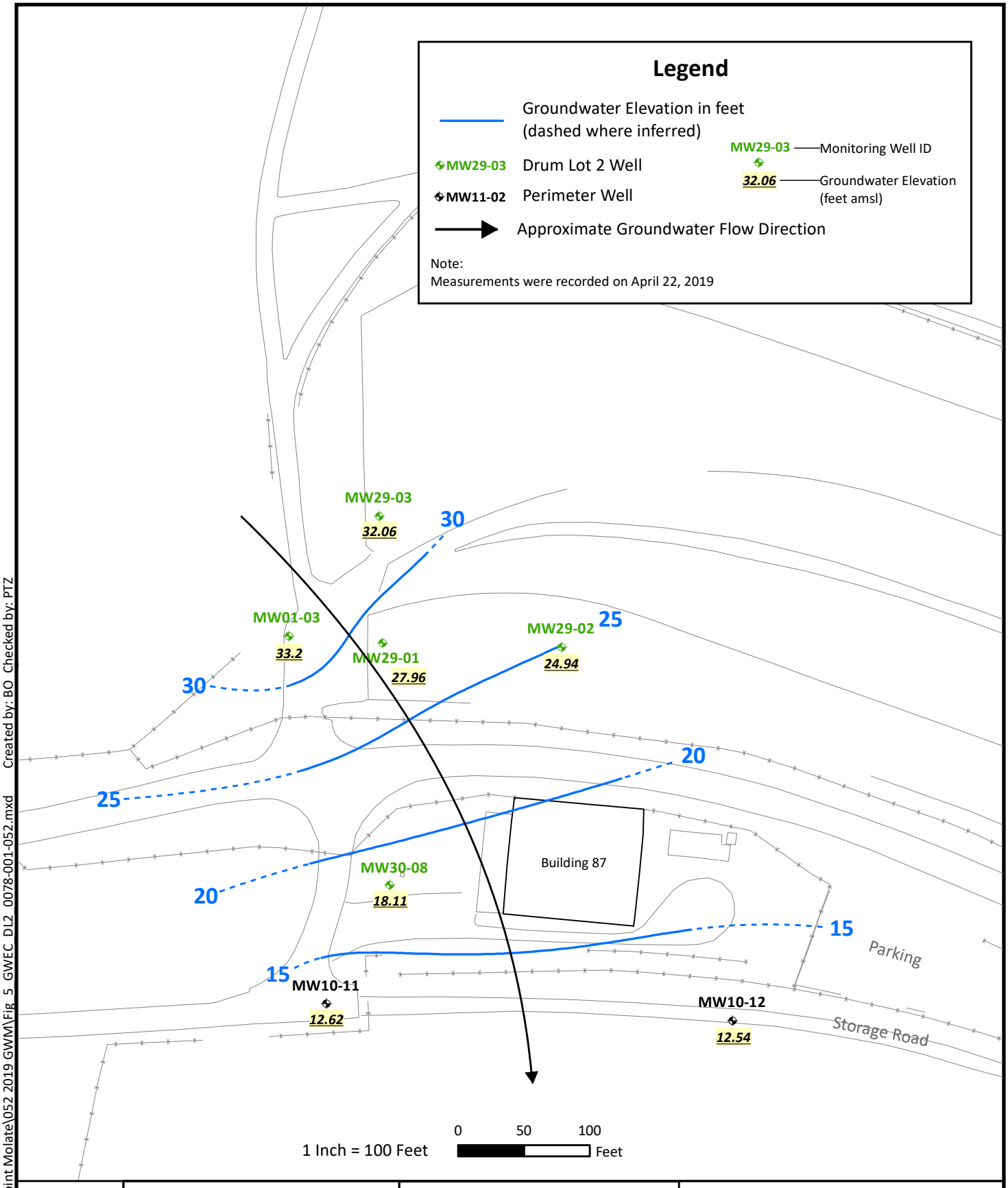
PROJECT: Point Molate
Site-Wide Groundwater Monitoring

PROJECT NUMBER: 0078.001.052

**Groundwater Elevation Contours April 2019**

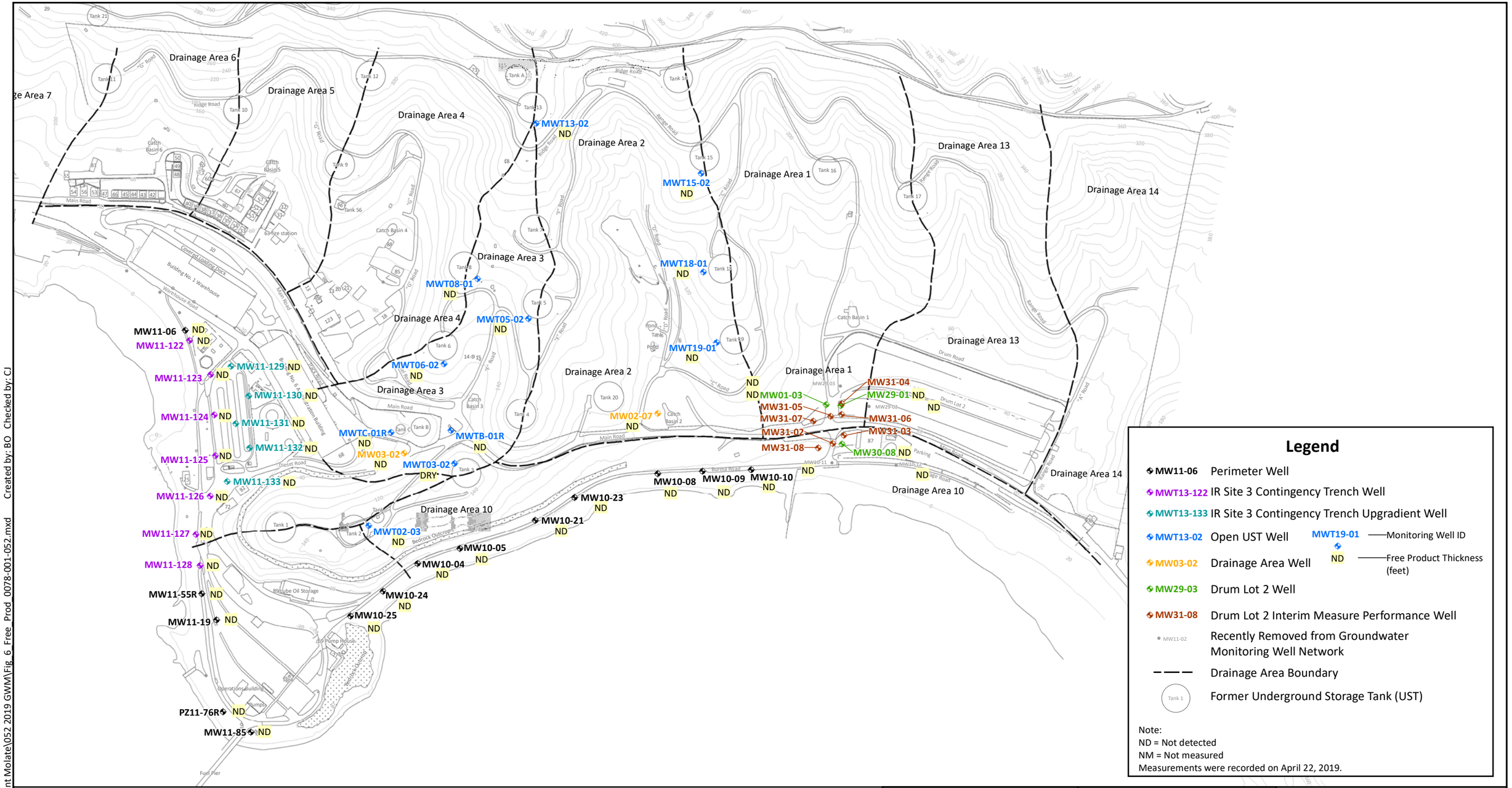
**FIGURE 4**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_4_GWElev_0078-001-052.mxd 7/12/2019 Created by: BO Checked by: CJ




File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig 5 GWEC DL2 0078-001-052.mxd Created by: BO Checked by: PTZ

| | | | |
|---|---|---|---|
| N | SAFETY FIRST | CLIENT: City of Richmond | Groundwater Elevation Contours<br>Drum Lot 2 Area<br>April 2019 |
| | terraphase engineering | PROJECT: Point Molate<br>Site-Wide Groundwater Monitoring | |
| | | PROJECT NUMBER: 0078.001.052 | FIGURE 5 |




## Legend

| | |
|---|---|
| MW11-06 | Perimeter Well |
| MWT13-122 | IR Site 3 Contingency Trench Well |
| MWT13-133 | IR Site 3 Contingency Trench Upgradient Well |
| MWT13-02 | Open UST Well |
| MW03-02 | Drainage Area Well |
| MW29-03 | Drum Lot 2 Well |
| MW31-08 | Drum Lot 2 Interim Measure Performance Well |
| MW11-02 | Recently Removed from Groundwater Monitoring Well Network |
| | Drainage Area Boundary |
| Tank 1 | Former Underground Storage Tank (UST) |

MWT19-01 — Monitoring Well ID
ND — Free Product Thickness (feet)

Note:
ND = Not detected
NM = Not measured
Measurements were recorded on April 22, 2019.

N

0 450 900 1,350 Feet

1 inch = 450 feet

SAFETY FIRST

terraphase engineering

CLIENT: City of Richmond

PROJECT: Point Molate
Site-Wide Groundwater Monitoring

PROJECT NUMBER: 0078.001.052

**Free Product Thickness April 2019**

**FIGURE 6**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_6_Free_Prod_0078-001-052.mxd Created by: BO Checked by: CJ

| MW11-06 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | **2800** |
| TPH + polars as TPH diesel | **970 Y** |
| TPH + polars as TPH jet fuel | **180 Y** |

| MW10-05 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | **410 Y** |
| TPH + polars as TPH diesel | **100 Y FB** |
| TPH + polars as TPH jet fuel | <50 |

| MW10-23 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | **1400** |
| TPH + polars as TPH diesel | **600 Y** |
| TPH + polars as TPH jet fuel | **230 Y** |

| MW10-09 | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | **1500 FB** |
| TPH + polars as TPH diesel | **260 Y FB** |
| TPH + polars as TPH jet fuel | **55 Y** |

| MW10-24 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | **3600 / 3900** |
| TPH + polars as TPH diesel | **1700 / 1900** |
| TPH + polars as TPH jet fuel | **610 Y / 720 Y** |

| MW11-55R | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | **700 FB** |
| TPH + polars as TPH diesel | **210 Y FB** |
| TPH + polars as TPH jet fuel | **59 Y** |

| MW11-85 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | **700 FB** |
| TPH + polars as TPH diesel | **210 Y FB** |
| TPH + polars as TPH jet fuel | **<50** |

| MW10-08 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | **350 Y** |
| TPH + polars as TPH diesel | **110 Y FB** |
| TPH + polars as TPH jet fuel | <50 |

| MW10-21 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | **350 Y** |
| TPH + polars as TPH diesel | **100 Y FB** |
| TPH + polars as TPH jet fuel | <50 |

| MW10-10 | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | **1100 FB** |
| TPH + polars as TPH diesel | **250 Y FB** |
| TPH + polars as TPH jet fuel | <50 |

| MW11-19 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | **1500 FB / 1600 FB** |
| TPH + polars as TPH diesel | **870 Y / 910 Y** |
| TPH + polars as TPH jet fuel | **590 / 620** |

| MW10-25 | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | **2800** |
| TPH + polars as TPH diesel | **1100 Y** |
| TPH + polars as TPH jet fuel | **270 Y** |

| MW10-04 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | **340 Y / 300 Y** |
| TPH + polars as TPH diesel | **110 Y FB / 85 Y FB** |
| TPH + polars as TPH jet fuel | <50 / <50 |

| PZ11-76R | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | **970 FB** |
| TPH + polars as TPH diesel | **330 Y FB** |
| TPH + polars as TPH jet fuel | **93 Y** |

MW11-06 MW11-55R MW11-19 MW11-85 PZ11-76R MW10-24 MW10-23 MW10-21 MW10-05 MW10-04 MW10-25 MW10-08 MW10-09 MW10-10

San Francisco Bay

## Legend

- **MW11-06** Perimeter Well
- MWT19-01 Additional Well in Groundwater Monitoring Well Network
- MW31-08 Drum Lot 2 Interim Measure Performance Well
- MW11-02 Recently Removed from Groundwater Monitoring Well Network
- Tank 1 Former Underground Storage Tank (UST)

| MW10-10 | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | **1100 FB** |
| TPH + polars as TPH diesel | **250 Y FB** |
| TPH + polars as TPH jet fuel | **<50** |

- MW10-10 — Monitoring Well ID
- 4/24/2019 — Date sampled
- 1100 FB — Concentration in micrograms per liter
- <50 — Not detected above reporting limit

Notes:
Samples were analyzed using EPA Method 8015B.
TPH = Total Petroleum Hydrocarbons
Bunker = TPH as bunker fuel C, carbon range C12-C40
Diesel = TPH as diesel, carbon range C10-C24
Jet Fuel = TPH as jet fuel, carbon range C10-C16
<50/<50 = primary and duplicate sample results
ESL= Water Quality Control Board Environmental Screening Level
**Bold** font indicates concentrations detected above the reporting limit.
Yellow shading indicates sample result exceeds Fuel Product Action Level for wells <150 feet from the shoreline and/or Aquatic Habitat Goal Level ESL.
FB = qualified as estimated due to detection in associated equipment blank sample
Y = Sample exhibited chromatographic pattern which does not resemble standard

N

0 450 900 1,350 Feet

1 Inch = 450 Feet

SAFETY FIRST

terraphase engineering

CLIENT: City of Richmond

PROJECT: Point Molate Site-Wide Groundwater Monitoring

PROJECT NUMBER: 0078.001.052

**Estimated Concentrations of Total Petroleum Hydrocarbons Plus Polar Compounds in Perimeter Wells April 2019**

**FIGURE 7**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_7_TPH_Perimeter_+polars_0078-001-052.mxd Created by: BO Checked by: CI

| MW11-123 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 2100 |
| TPH + polars as TPH diesel | 1000 Y |
| TPH + polars as TPH jet fuel | 230 Y |

| MW11-122 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 3000 |
| TPH + polars as TPH diesel | 1200 Y |
| TPH + polars as TPH jet fuel | 330 Y |

| MW11-129 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 1100 FB |
| TPH + polars as TPH diesel | 440 Y FB |
| TPH + polars as TPH jet fuel | 120 Y |

| MW11-130 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 3700 |
| TPH + polars as TPH diesel | 1700 Y |
| TPH + polars as TPH jet fuel | 390 Y |

| MW11-124 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 2500 |
| TPH + polars as TPH diesel | 1100 Y |
| TPH + polars as TPH jet fuel | 290 Y |

| MW11-131 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 2400 |
| TPH + polars as TPH diesel | 1100 Y |
| TPH + polars as TPH jet fuel | 380 Y |

| MW11-125 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 2200 |
| TPH + polars as TPH diesel | 1000 Y |
| TPH + polars as TPH jet fuel | 240 Y |

| MW11-126 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | 4400 |
| TPH + polars as TPH diesel | 2000 |
| TPH + polars as TPH jet fuel | 530 Y |

| MW11-133 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 1500 FB / 1400 FB |
| TPH + polars as TPH diesel | 590 Y FB / 540 Y FB |
| TPH + polars as TPH jet fuel | 160 Y / 160 Y |

| MW11-132 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 1300 FB |
| TPH + polars as TPH diesel | 550 Y FB |
| TPH + polars as TPH jet fuel | 150 Y |

| MW11-128 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | <300 |
| TPH + polars as TPH diesel | <50 |
| TPH + polars as TPH jet fuel | <50 |

| MW11-127 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | 3600 |
| TPH + polars as TPH diesel | 1600 |
| TPH + polars as TPH jet fuel | 370 Y |

## Legend

- MW11-122 IR Site 3 Contingency Trench Well
- MWT13-133 IR Site 3 Contingency Trench Upgradient Well
- MWT19-01 Additional Well in Groundwater Monitoring Well Network
- MW31-08 Drum Lot 2 Interim Measure Performance Well
- MW11-02 Recently Removed from Groundwater Monitoring Well Network
- Tank 1 Former Underground Storage Tank (UST)

Notes:
Samples were analyzed using EPA Method 8015B.
TPH = Total Petroleum Hydrocarbons
Bunker = TPH as bunker fuel C, carbon range C12-C40
Diesel = TPH as diesel, carbon range C10-C24
Jet Fuel = TPH as jet fuel, carbon range C10-C16
<50/<50 = primary and duplicate sample results
ESL = Water Quality Control Board Environmental Screening Level
**Bold** font indicates concentrations detected above the reporting limit.
FB = Qualified as estimated due to detection in associated blank sample
Yellow shading indicates sample result exceeds Fuel Product Action Level for wells <150 feet from the shoreline and/or Aquatic Habitat Goal Level ESL.
Y = Sample exhibited chromatographic pattern which does not resemble standard

| MW11-122 | |
|---|---|
| 4/29/2019 | |
| TPH + polars as TPH bunker | 3000 |
| TPH + polars as TPH diesel | 1200 Y |
| TPH + polars as TPH jet fuel | 330 Y |

- Monitoring Well ID
- Date sampled
- Concentration in micrograms per liter

N

0 450 900 1,350 Feet

1 Inch = 450 Feet

SAFETY FIRST

terraphase engineering

CLIENT: City of Richmond

PROJECT: Point Molate
Site-Wide Groundwater Monitoring

PROJECT NUMBER: 0078.001.052

**Estimated Concentrations of Total Petroleum Hydrocarbons Plus Polar Compounds in IR Site 3 April 2019**

**FIGURE 8**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_& _TPH_IR3Contingency+polars_0078-001-052.mxd Created by: BO Checked by: CJ

| MWT13-02 | |
|---|---|
| 4/23/2019 | |
| TPH + polars as TPH bunker | 17000 Y |
| TPH + polars as TPH diesel | 8100 Y |
| TPH + polars as TPH jet fuel | 2000 Y |

| MWT08-01 | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | 4700 |
| TPH + polars as TPH diesel | 2200 |
| TPH + polars as TPH jet fuel | 870 Y |

| MWT05-02 | |
|---|---|
| 4/23/2019 | |
| TPH + polars as TPH bunker | 280000 Y |
| TPH + polars as TPH diesel | 170000 |
| TPH + polars as TPH jet fuel | 110000 Y |

| MWT15-02 | |
|---|---|
| 4/23/2019 | |
| TPH + polars as TPH bunker | 15000 Y |
| TPH + polars as TPH diesel | 7400 |
| TPH + polars as TPH jet fuel | 4300 Y |

| MWT18-01 | |
|---|---|
| 4/23/2019 | |
| TPH + polars as TPH bunker | 17000 Y |
| TPH + polars as TPH diesel | 9100 |
| TPH + polars as TPH jet fuel | 3700 Y |

| MWTC-01R | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | 2100 |
| TPH + polars as TPH diesel | 660 Y |
| TPH + polars as TPH jet fuel | 66 Y |

| MWT06-02 | |
|---|---|
| 4/23/2019 | |
| TPH + polars as TPH bunker | 19000 Y |
| TPH + polars as TPH diesel | 9700 |
| TPH + polars as TPH jet fuel | 4200 Y |

| MWT19-01 | |
|---|---|
| 4/24/2019 | |
| TPH + polars as TPH bunker | 6300 |
| TPH + polars as TPH diesel | 1800 Y |
| TPH + polars as TPH jet fuel | 750 Y |

| MW03-02 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | 2300 |
| TPH + polars as TPH diesel | 1200 |
| TPH + polars as TPH jet fuel | 630 Y |

| MWTB-01R | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | 9000 Y |
| TPH + polars as TPH diesel | 5400 |
| TPH + polars as TPH jet fuel | 3300 Y |

| MW02-07 | |
|---|---|
| 4/26/2019 | |
| TPH + polars as TPH bunker | 1400 FB |
| TPH + polars as TPH diesel | 650 Y |
| TPH + polars as TPH jet fuel | 420 |

| MWT02-03 | |
|---|---|
| 4/25/2019 | |
| TPH + polars as TPH bunker | 500 Y |
| TPH + polars as TPH diesel | 160 Y FB |
| TPH + polars as TPH jet fuel | <50 |

## Legend

- MWT12-03 Open UST Well
- MW03-02 Drainage Area Well
- MWT10-12 Additional Well in Groundwater Monitoring Well Network
- MW31-08 Drum Lot 2 Interim Measure Performance Well
- MW11-02 Recently Removed from Groundwater Monitoring Well Network
- Tank 1 Former Underground Storage Tank (UST)

Notes:
Samples were analyzed using EPA Method 8015B.
TPH = Total Petroleum Hydrocarbons
Bunker = TPH as bunker fuel C, carbon range C12-C40
Diesel = TPH as diesel, carbon range C10-C24
Jet Fuel = TPH as jet fuel, carbon range C10-C16
*Insufficient water for sample collection.
**Bold** indicates concentrations detected above the reporting limit.
ESL = Water Quality Control Board Environmental Screening Level
FB = Qualified as estimated due to detection in associated blank sample
Yellow shading indicates sample result exceeds Fuel Product Action Level for wells >150 feet from the shoreline and/or Aquatic Habitat Goal Level ESL.
Y = Sample exhibited chromatographic pattern which does not resemble standard

| MWT02-03 | — Monitoring Well ID |
|---|---|
| 4/25/2019 | — Date sampled |
| TPH + polars as TPH bunker: 500 Y | |
| TPH + polars as TPH diesel: 160 Y FB | — Concentration in micrograms per liter |
| TPH + polars as TPH jet fuel: <50 | — Not detected above reporting limit |

N

0 450 900 1,350 Feet

1 Inch = 450 Feet

SAFETY FIRST

terraphase engineering

CLIENT: City of Richmond

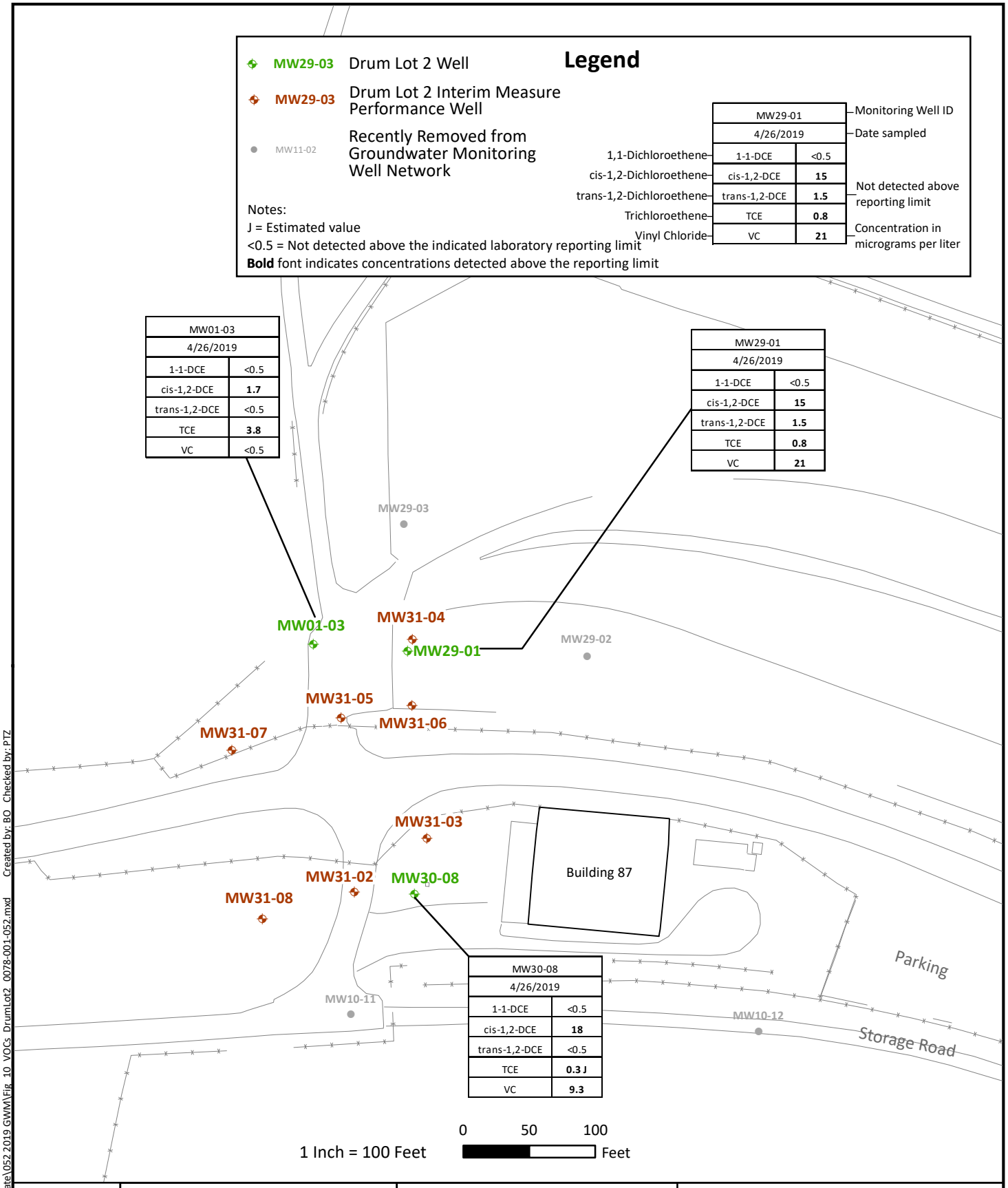
PROJECT: Site-Wide Groundwater Monitoring

PROJECT NUMBER: 0078.001.052

**Estimated Concentrations of Total Petroleum Hydrocarbons Plus Polar Compounds in UST and Drainage Area Wells - April 2019**

**FIGURE 9**

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_9_TPH_UST&Drainage_WellsB_0078-001-052.mxd Created by: BO Checked by: CJ




| | | | |
|---|---|---|---|
| N | SAFETY FIRST | CLIENT: City of Richmond | Concentrations of Volatile Organic Compounds in Drum Lot 2 Wells April 2019 |
| | terraphase engineering | PROJECT: Point Molate Site-Wide Groundwater Monitoring | |
| | | PROJECT NUMBER: 0078.001.052 | FIGURE 10 |

File: K:\GIS\Prj\0001 Point Molate\052 2019 GWM\Fig_10_VOCs_DrumLot2_0078-001-052.mxd Created by: BO Checked by: PTZ

# APPENDIX P
NCE PHASE II ENVIRONMENTAL SITE ASSESSMENT FINDINGS MEMORANDUM

# MEMORANDUM

| | |
|---|---|
| Date: | August 23, 2016 |
| To: | Ms. Suzanne Wilson, Senior Planner - Trails EBRPD |
| From: | Mr. Brett Bardsley, P.G. and Mr. Michael Leacox, C.E.G. |
| Subject: | Phase II Environmental Site Assessment (ESA) Findings Memorandum – San Francisco Bay Trail at Point Molate |

## INTRODUCTION

NCE, on behalf of the East Bay Regional Park District (EBRPD), conducted a Phase II Environmental Site Assessment (ESA) at the San Francisco Bay Trail at Point Molate Project (herein identified as the Project or Bay Trail) located in the City of Richmond (City), Contra Costa County, California (Figure 1). The primary objective of the Project is to construct a 10-foot wide, asphalt-paved multi-use, non-vehicular trail with two foot shoulders adjacent to or within a former railroad alignment located north of the Richmond-San Rafael Bridge on the eastern shore of the San Francisco Bay (Bay). Figures 2 and 3, as well as Plan Sheets F1 through F5 (Attachment A), illustrate the proposed Project layout. In addition, the approximate location of the former railroad alignment is also illustrated on the Plan Sheets.

The Phase II ESA was conducted based on the results of an initial hazardous waste assessment (herein identified as the Phase I; NCE, 2016), which is discussed in more detail in the next section. The Phase I identified the presence of several concerns including the potential for impacted soils to be present along the former railroad corridor from historical railroad activities and the presence of dilapidated structures and hazardous building materials (HBMs) to be present on these structures and on the ground. Based on this information, the Phase I recommended that the Site undergo a Phase II ESA.

The primary objective of the Phase II ESA is to assess whether there are railroad-related chemicals of concern (COCs) within the Project limits, and, if present, to use the Phase II findings to support the planning and design stages including the development of mitigation measures. The Phase II ESA also included an evaluation of whether scattered building shingles lying on the ground within or near an area at the Site identified as "IR Site 4 (Drum Lot 1)" contained asbestos containing material (ACMs). The Phase II ESA did not include an evaluation of HBMs on the dilapidated structures and surrounding soil because it is anticipated that fences will be constructed around these structures as part of the Project design to eliminate future user exposure.

### Scope of Work

The Phase II ESA was conducted in a phased approach to allow for the development of subsequent sampling efforts based on the results obtained from an initial investigation, which was conducted on March 8 through March 10, 2016. The primary objective was to

assess the potential presence of railroad-related COCs within the Project limits. The field activities included utility locating, collecting shallow soil samples approximately every 300 feet along the proposed Bay Trail alignment, and submitting the samples for total arsenic and lead analysis.

On May 30 and June 1, 2016, a supplemental investigation was performed to provide lateral assessment of arsenic in shallow soil and to aid in developing mitigation alternatives and project-specific risk management approaches. The field activities included utility locating, collecting step-out samples on one or both sides of the initial sample locations or collecting additional samples along the proposed Bay Trail alignment. All of the samples were submitted to an analytical laboratory for arsenic analysis and five of the samples for polynuclear aromatic hydrocarbon (PAH) analysis. In addition, samples were also collected from the building shingles that are lying on the ground within the Project limits at IR Site 4 (Drum Lot 1) and tested for the presence of asbestos.

## BACKGROUND

### Project Location

The Project is located in the Potrero Hills of Point San Pablo Peninsula, northwest of the City in Contra costa County, California (Plate 1). The Project is located on the east side of the Bay and generally bordered by undeveloped land to the north, by the Chevron Richmond refinery to the east, and by the Richmond-San Rafael Bridge to the south.

### Project Background

The proposed Project will be approximately 2.5-miles and extend north along the shoreline, through Chevron Corporation (Chevron) property, to the Point Molate Beach Park and Former Naval Fuel Depot (NFD) property, owned and managed by the City. The Bay Trail will give the public access to the shoreline and the ability to connect to the park via foot or bicycle.

The Project is divided into two segments, Segment A and Segment B, as described below:

- Segment A (Figure 2) will be constructed within a 20-foot wide surface easement through Chevron property, which stretches from Stenmark Drive on the north side of the Richmond-San Rafael Bridge (I-580), north to the southern extent of Chevron's boundary at Point Molate Beach Park (Figure 2). Segment A will be approximately 1-mile long, 10-feet wide with 2-foot shoulders on each side. Segment A will be operated and maintained by EBRPD.

- Segment B (Figure 3) will be constructed on City property and continue north from the northern extent of Segment A through Point Molate Beach Park, the Winehaven Historic District, to the northern extent of Chevron's boundary. Segment B will be approximately 1.5 miles long, 10 feet wide with 2 foot shoulders on each side. Segment B will be operated and maintained by the City.

In 2009, the EBRPD entered into an agreement for the donation of the Segment A surface easement for the San Francisco Bay Trail that follows the former Richmond Beltline Railroad/Castro Point Railway corridor along the shoreline of their southernmost property on the San Pablo Peninsula. In 2013 and 2014, EBRPD hired NCE to conduct an alignment study for a Class I bike path to be constructed generally adjacent to or on top of the former railroad alignment and, as a result, recorded the trail easement.

Recently, the Bay Area Toll Authority (BATA) approved the installation of a multi-use recreational trail along the shoreline from the Richmond – San Rafael Bridge to Marine Street, near Point Richmond, which would connect to the EBRPD's surface easement at Stenmark Drive. The combined projects will connect trail users from both the City and the City of Marin to San Pablo Peninsula.

**Phase I**

In March and April, 2016, NCE performed on behalf of the EBRPD, the Phase I, the findings of which are summarized in NCE's April 20, 2016 memorandum entitled *Hazardous Waste Memorandum – San Francisco Bay Trail at Point Molate*. The purpose of this Phase I was to identify the presence or likely presence of potential environmental concerns (PECs) in connection with the Project so that mitigation measures and/or engineering controls can be implemented such that unacceptable risk, if present, is minimized to construction workers and future site users during and/or after construction of the Project.

Because only the near surface soils (between ground surface and 2-feet below the ground surface [bgs]) are expected to be disturbed and direct contact with groundwater is not anticipated during construction, the Phase I did not include an evaluation of deeper soils and/or groundwater conditions beneath and/or adjacent to the Project. In addition, vapor intrusion to indoor air from the migration of volatile chemicals in the subsurface was also not evaluated because the Project is not expected to include the construction of buildings.

Activities to identify PECs in connection with the Project included a records review of available historical documents; standard historical sources including aerial photographs, fire insurance maps, property tax files, and recorded land title records, United States Geological Survey (USGS) topographic maps, and Local Street Directories; and environmental regulatory records, a site reconnaissance of the Project and adjacent parcels, and interviews. These activities were generally performed using ASTM International (ASTM) 1527-13 methodology and consistent with the United States Environmental Protection Agency (EPA) All Appropriate Inquiries (AAI) rule.

The assessment revealed the following PECs in connection with the Project:

- **Potential for impacted soils to be present along the former railroad corridor from historical railroad activities.** There is a potential for the presence of elevated arsenic and lead related to herbicide applications and PAHs as a result of the combustion of fossil fuel products to be present in shallow soils.

- **Potential for HBMs to be present on the nearby structures and on the ground.** Based on the age of the buildings, the potential exists for the presence of

HBMs to be present on the nearby structures and in the soil near those structures. The concerns include:

- Many of the nearby structures appear to be in a state of disrepair. These structures could attract users of the Bay Trail, and, as a result, could pose an unacceptable risk.

- The presence of lead in soil originating from lead based paints (LBPs) and coatings used on exterior building surfaces that may have since flaked or oxidized and deposited into surrounding soils.

- On February 1, 2016, roofing shingles that appear to contain asbestos were observed by NCE during a site reconnaissance to be scattered on the ground in the western portion of IR Site 4 (Drum Lot 1). Disturbance of ACMs can generate airborne asbestos fibers. In addition, portions of the aboveground petroleum pipeline in the southern portion of Segment B may contain asbestos coating materials, as well as the underground piping that was abandoned in place at Segment B (Tetra Tech, 2003a).

COCs related to the NFD were not included as PECs in connection with the Project, based on the following:

- Findings of s 2003 Human Health and Ecological Risk Assessment (HHERA) and 2005 risk assessment concluded that there are no unacceptable risks to potential humans (including current groundskeeper, future park maintenance worker, and future recreational user exposure scenarios) or ecological receptors from exposure to the contaminants at the North Shoreline Area, IR Site 4 (Drum Lot 1), and the South Shoreline Area including the area in the vicinity of Building 87 (Tetra Tech, 2003b; Tetra Tech and Sullivan Consultant Group, 2005).

- According to Mr. William Carson, president and principal engineer of Terraphase Engineering, Inc. (Terraphase) and the City's NFD environmental consultant, a remedial excavation was recently completed at IR Site 3 (Former Treatment Ponds). With the exception of potential contamination that may have been left in place adjacent to the rip rap near the Bay and beneath Building 6 to the east, the upper five feet at IR Site 3 (Former Treatment Ponds) contains materials appropriate for residential land uses.

Based on the findings noted above, NCE recommended that the Phase II investigation be performed to provide baseline near surface soil conditions (between the ground surface and two feet bgs) along the proposed Project alignment to support the planning and design stages. Details of the Phase II investigation are discussed in the next sections.

## FIELD INVESTIGATION

This section describes the Phase II ESA field activities that were conducted and identifies the laboratory analyses performed on the collected samples. The soil sample locations and the approximate location of the former railroad alignment are shown on the plan sheets included as Attachment A. The initial phase included sampling along the proposed trail

alignment to look for the presence of COCs. The second phase included collecting samples in cross-section of the areas identified as concerns during the initial phase. The cross-section testing was intended to support design and a human health risk assessment (HHRA).

**Pre-Field Activities**

Prior to initiating intrusive work, the following activities were performed:

- Prepared a site specific health and safety plan (HASP) for the field activities in accordance with Part 1910.120 of Title 29 of the Code of Federal Regulations (CFR) and the California Code of Regulations Title 8, Section 5192.

- Contracted and scheduled subcontractors to perform the soil boring installation activities.

- Contacted Underground Service Alert North (USAN) at least two business days prior to conducting any intrusive work to locate and mark the subsurface utilities in the immediate vicinity of the Site. The USAN ticket number associated with the investigation was 0108837.

- Retained a private underground utility locating service to perform underground utility clearance at the proposed boring locations. Advanced Geological Services (AGS) of Moraga, California, performed the utility locating on March 7 and May 31, 2016.

**Boring installation and Soil Sampling**

The Phase II ESA included the advancement of 82 soil borings as described below:

- On March 8 through March 10, 2016, a total of 34 soil borings (B-1 through B-36) were advanced to depths ranging from one to two feet below the ground surface (bgs) along the proposed Bay Trail alignment by California Geotech Service, LLC of Livermore, California, using a truck-mounted hollow stem drilling rig or limited access drill equipment. Up to two discrete soil samples were collected from each boring using split spoon samples at depths ranging from ground surface to 0.5-feet bgs and 1.5- and 2-feet bgs. The reason that the lower sample at some locations was not collected was due to drilling refusal on the hard bedrock.

- On March 30 and June 1, 2016, a total of 48 soil borings were advanced to depths of approximately two feet bgs along the proposed Bay Trail alignment and at step out locations adjacent to the initial investigation sample locations by Confluence Environmental, Inc. (Confluence) of Sacramento, California, using direct push drilling methods. Using the direct push method, continuous soil cores were collected using a small, 2-inch diameter, 4-foot long, stainless steel sampler, equipped with a disposable plastic liner. The sampler was hydraulically driven through the interval to be sampled and withdrawn from the soil boring. The liner with the soil sample was then removed and discrete soil samples were collected from the recovered soil core for potential laboratory chemical analysis. Two discrete samples were collected from

each boring at depths ranging from approximately 0.5- to 1-foot and 1.5 to 2-feet bgs.

During drilling, a NCE geologist described the soil conditions encountered during advancement of each boring in accordance with the USCS (American Society for Testing and Materials [ASTM] D2488-84). The NCE geologist also recorded field observations on boring logs, which are included as Attachment B.

Soil samples collected during the Phase II ESA were submitted under chain-of-custody procedures to Excelchem Environmental Labs (Excelchem) of Rocklin, California, a state certified analytical laboratory, for one or more of the following analyses:

- Arsenic and lead by United States Environmental Protection Agency (EPA) Method 6010B; and
- Polynuclear aromatic hydrocarbons by EPA Method 8270C-Selective Ion Monitoring (SIM).

After completion of drilling activities, each borehole was backfilled with native materials and the surface was repaired with soil or asphalt patch to match the surrounding surface.

### Asbestos Sampling

On July 20, 2016, Forensic analytical Consulting Services (FACs), a California licensed asbestos contractor of Citrus Heights, California, collected three samples of the roofing shingles that were lying on the ground in the western portion of IR Site 4 (Drum Lot 1). These samples were submitted under chain-of-custody procedures to Forensic Analytical Laboratories in Hayward, California, for asbestos analysis.

## FINDINGS

This section presents a summary of the analytical results for the soil samples collected within the Project limits to date. The sample locations and the arsenic and lead analytical results are shown on the plan sets included as Attachment A. The laboratory chemical results of the soil and groundwater analyses are tabulated in Tables 1 and 2. The completed soil sample analytical reports and chain-of-custody documents are included as Attachment C. The completed asbestos analytical report and chain-of-custody documents are included as Attachment D.

### Evaluation Criteria

Published screening values were used to assess if COCs are present within the Project limits at concentrations that are of concern. The California Department of Toxic Substances Control's (DTSC's, 2009) guidance for evaluation of hazardous substance release sites recommends the use of the DTSC Modified Screening Levels (DTSC-SLs) by the DTSC Human and Ecological Risk Office (HERO) as comparators and the Regional Screening Levels (RSLs) developed by the EPA when DTSC-SLs have not been developed. RSLs are human-health-risk-based soil, air, or water concentrations developed for about 750 chemicals using toxicity criteria established or agreed upon by the EPA and assuming residential land and commercial/ industrial land uses. Accordingly, the DTSC-SLs and EPA RSLs for residential

and commercial/industrial land uses were used as the screening values to compare the analytical data of the samples collected during the Phase II ESA. The data was also compared to applicable California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) Environmental Screening Levels (ESLs) for residential and commercial/industrial soil because the Project is located within the San Francisco Bay Region.

In addition, because arsenic is often naturally present in California soils at concentrations greater than the applicable regulatory screening values, NCE created a normality plot (Attachment E) as recommended by DTSC (2009). Review of the normality plot suggests that soils containing arsenic concentrations up to 8 milligrams per kilogram (mg/kg) may be considered within the range of naturally occurring background levels.

**Soil Sample Analytical Results**

Review of the analytical results (see attached Table 1) indicates the following:

- Arsenic was reported[1] in the 149 samples at concentrations ranging from 1.6 milligrams per kilogram (mg/kg) in the 1.5-foot sample collected from boring B-33B to 43.3 mg/kg in the sample collected from boring B-39A from ground surface to approximately 0.5-feet bgs. These concentrations exceed the DTSC-SLs for residential and commercial/industrial soils of 0.067 and 0.25 mg/kg, respectively. In addition, a total of 31 samples contained concentrations greater than 8 mg/kg, the estimated upper limit of naturally occurring background levels.

- Lead was reported in 42 samples at concentrations ranging from less than 1 mg/kg in the 0.5-foot sample from boring B-19 to 527 mg/kg in the 0.5-foot sample from boring B-5. None of the reported concentrations exceeded the applicable lead DTSC-SL for residential land uses of 80 mg/kg except the concentration reported in the 0.5-foot sample from boring B-5. Lead was reported in the 1.5-foot sample from that boring at a concentration of 9.0 mg/kg, which suggests that the elevated lead may be limited in extent.

- PAHs were reported in 2 of the 5 samples analyzed for PAHs. Only the reported benzo(a)pyrene concentration reported in the sample collected from boring B-42B from ground surface to approximately 0.5-feet bgs in the sample exceeded the applicable EPA RSL for commercial/industrial land uses.

The quality of the chemical data reported by Excelchem was assessed from the results of the internal laboratory spikes and method blanks. The internal laboratory spikes and surrogate recoveries for methods blanks were within recovery limits and samples were analyzed with acceptable holding times. Based on this review of the associated analytical reports, the analytical data provided by Excelchem were consistent with industry standards for laboratories.

[1] Reported means that the analyte concentration exceeded the laboratory reporting limit.

**Asbestos Analytical Results**

Review of the analytical report indicates that two layers were identified: Grey Roof Shingle and Black Tar. Review of the analytical results indicates that asbestos was not detected in the roofing shingle samples.

## GENERAL DISCUSSION

This section presents a general discussion of the analytical results presented above. The sample locations are presented on the plan sheets (Attachment A). Generally, the findings of the Phase II ESA indicate the following:

- Arsenic concentrations above expected background concentrations were reported in 31 of the 149 samples analyzed for arsenic. These 31 samples were collected at locations that were coincident with the former railroad corridor. Based on this information, the elevated arsenic is most likely related to the former railroad activities. Accordingly, it is also likely that elevated concentrations of arsenic are present within the former railroad corridor located outside of the Bay Trail footprint.

- Elevated lead concentrations within the Project limits appear to be limited. Lead was only reported at one location at a concentration greater than the applicable DTSC-SL for commercial/industrial land uses of 320 mg/kg – lead was reported at a concentration of 527 mg/kg in the 0.5-foot sample from boring B-5. In addition, the elevated lead at that location appeared to be limited in extent vertically – lead was reported in the 1.5-foot sample from that boring at a concentration of 9.0 mg/kg.

- Similar to lead, PAHs related to the former railroad activities appear to be limited in extent based on the limited PAH data collected at the Site to date.

- The scattered roofing shingles on the ground in the western portion of IR Site 4 (Drum Lot 1) do not appear to contain asbestos based on the asbestos analytical results, which showed that the three samples collected did not contain asbestos.

Based on the information noted above, NCE recommends the following mitigation measures and/or engineering controls to isolate future users of the Bay Trail from the PECs identified during the Phase I and Phase II evaluations:

- Isolate the elevated concentrations of arsenic impacted soil along the former railroad corridor where it is coincident with the Bay Trail footprint. Isolation of these soils is anticipated to include being capped in place beneath and/or covered by the Bay Trail footprint.

- Isolate and/or install institutional controls to avoid exposures of anticipated elevated concentrations of arsenic impacted soil where the former railroad corridor is not coincident with the Bay Trail. Mitigation measures may include covering the impacted soils with a minimum one-foot of landscaping and ground cover during

Project development, constructing fences to eliminate user exposure, or relocating impacted soils to areas that will be covered by the Bay Trail footprint.

- Install institutional controls to isolate the nearby dilapidated structures and presumed presence of HBMs on the structures for future users of the Bay Trail. If the structures are located within the Project limits, NCE recommends that the structures be sampled and tested for HBMs and demolished following appropriate protocols and procedures and/or that fences be constructed around the structures to eliminate future user exposure.

To assess if the impacted soils within the railroad corridor within or adjacent to the proposed Bay Trail footprint pose a potential health hazard to future users of the finished Bay Trail, as well as the dilapidated buildings within and/or adjacent to the Project limits, NCE recommends that a Human Health Risk Assessment (HHRA) be performed based on the 35-percent design in accordance with DTSC (2015) guidance. The HHRA will establish necessary clean up levels to support the design, as well as further evaluation of remedial options to mitigate risks, if necessary.

Additionally, the protection of construction workers (i.e., health and safety plan, dust control, air monitoring, etc.) or other nearby people will be required during grading operations conducted within the Project limits. Following construction, where contaminated soil is left in-place using capping or other risk management procedures, an operation/maintenance plan and a land use covenant (LUC) will be required, along with 5-year reviews to ensure impacted soils are not disturbed and that the Bay Trail is properly maintained. In addition, the protocols outlined in the 2012 Soil and Groundwater Management Plan (Terraphase, 2012) for the NFD (Attachment F) and the covenants, easements, and land use restrictions from the Navy and City's Early Transfer Cooperative Agreement (Attachment G) should be followed during soil disturbance and building demolition activities at Segment B.

## LIMITATIONS

The recent ESA activities were performed in accordance with practices and procedures generally accepted in the environmental consulting field. NCE's professional opinions are based upon its professional judgment, experience, and training. These opinions are also based upon data derived from the limited testing and analysis described in this report. It is possible that additional testing and analysis might produce different results and/or different opinions.

Our professional opinions expressed herein are based on limited data; no other warranty is given or implied by this report. A more extensive assessment, that would include additional surface and/or subsurface investigation and chemical analyses of soil and/or groundwater samples, would provide more definitive information concerning site-specific conditions. This report is complete and accurate to the extent that cited reports and agency information are complete and accurate.

This document was prepared for the sole use of EBRPD, the only intended beneficiaries of our work. Any party, other than the aforementioned, which relies on the information

contained herein without the prior written consent of EBRPD and does so at their own risk and without any liability or legal exposure on the part of the EBRPD or NCE.

## REFERENCES

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# TABLES

**Table 1 - Draft**
**Summary of Soil Analytical Data - Arsenic and Lead**
**Phase II Environmental Site Assessment**
**San Francisco Bay at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample (Depth bgs) | General Direction from Proposed Trail Alignment | Metals (Units in Milligrams per Kilogram) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| **Segment A** | | | | | |
| B-1-0.5 | 03/08/16 | 0.5 | Middle | 2.5 | 9.3 |
| B-1-1.5 | 03/08/16 | 1.5 | | 3.9 | 8.4 |
| B-2-0.5 | 03/08/16 | 0.5 | Middle | 2.9 | 13.1 |
| B-2-1.5 | 03/08/16 | 1.5 | | 3.5 | 9.2 |
| B-3-0.5 | 03/08/16 | 0.5 | Middle | 4.6 | 63.5 |
| B-3-1.5 | 03/08/16 | 1.5 | | 3.7 | 36.9 |
| B-4-0.5 | 03/08/16 | 0.5 | MIddle | 3.2 | 14.2 |
| B-4-1.5 | 03/08/16 | 1.5 | | 2.4 | 7.8 |
| B-5-0.5 | 03/08/16 | 0.5 | MIddle | 4.8 | **527** |
| B-5-1.5 | 03/08/16 | 1.5 | | 2.0 | 9.0 |
| B-6-0.4 | 03/08/16 | 0.4 | MIddle | 4.1 | 9.7 |
| B-7-0.4 | 03/08/16 | 0.4 | MIddle | 2.3 | 8.3 |
| B-34-0.5 | 03/08/16 | 0.5 | MIddle | 2.4 | 8.2 |
| B-8-0.2 | 03/08/16 | 0.2 | MIddle | 5.8 | 11.9 |
| B-9-0.2 | 03/10/16 | 0.2 | Middle | 3.3 | 7.2 |
| B-10-0.5 | 03/10/16 | 0.5 | Middle | 4.3 | 31.8 |
| B-10-1.5 | 03/10/16 | 1.5 | | 5.9 | 46.2 |
| B-47A-0 | 05/31/16 | 0 | West | 7.4 | -- |
| B-47A-1.5 | 05/31/16 | 1.5 | | 6.2 | -- |
| B-47B-0 | 05/31/16 | 0 | Middle | 5.4 | -- |
| B-47B-1.5 | 05/31/16 | 1.5 | | 5.4 | -- |
| B-47C-0 | 05/31/16 | 0 | East | 4.2 | -- |
| B-47C-1.5 | 05/31/16 | 1.5 | | 3.5 | -- |
| B-11A-0.2 | 05/31/16 | 0.2 | West | 4.4 | -- |
| B-11A-1.5 | 05/31/16 | 1.5 | | 5.0 | -- |
| B-11-0.5 | 03/10/16 | 0.5 | Middle | **12.8** | 19.9 |
| B-11-1.5 | 03/10/16 | 1.5 | | **13.4** | 15.5 |
| B-11B-0 | 05/31/16 | 0 | East | **16.2** | -- |
| B-11B-1.5 | 05/31/16 | 1.5 | | **15.4** | -- |
| **Applicable Regulatory Screening Values** | | | | | |
| **DTSC-SLs for Residential Soil[1]** | | | | **0.067** | **80** |
| **DTSC-SL for Industrial/Commercial Soil[1]** | | | | **0.25** | **320** |
| **RWQCB ESL for Residential Soil[2]** | | | | **0.067** | **80** |
| **RWQCB ESL for Commercial/industrial Soil[2]** | | | | **0.31** | **320** |
| **Approximate Upper Limit of Expected Background** | | | | **8** | **--** |

**Table 1 - Draft**
**Summary of Soil Analytical Data - Arsenic and Lead**
**Phase II Environmental Site Assessment**
**San Francisco Bay at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample (Depth bgs) | General Direction from Proposed Trail Alignment | Metals (Units in Milligrams per Kilogram) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| B-46A-0 | 05/31/16 | 0 | West | 5.2 | -- |
| B-46A-1.5 | 05/31/16 | 1.5 | | 7.1 | -- |
| B-46B-0 | 05/31/16 | 0 | MIddle | **39.9** | -- |
| B-46B-1.5 | 05/31/16 | 1.5 | | **13.6** | -- |
| B-46C-0 | 05/31/16 | 0 | East | 2.1 | -- |
| B-46C-1.5 | 05/31/16 | 1.5 | | 7.3 | -- |
| B-45A-0 | 05/31/16 | 0 | West | 7.9 | -- |
| B-45A-1.5 | 05/31/16 | 1.5 | | 4.2 | -- |
| B-45B-0 | 05/31/16 | 0 | Middle | **11.8** | -- |
| B-45B-1.5 | 05/31/16 | 2 | | **10.4** | -- |
| B-45C-0.2 | 05/31/16 | 0.2 | East | **9.2** | -- |
| B-35A-0.5 | 06/01/16 | 0.5 | West | 2.1 | -- |
| B-35A-1 | 06/01/16 | 1 | | 2.9 | -- |
| B-35-0.8 | 03/10/16 | 0.8 | Middle | **14.9** | 20.6 |
| B-35-1.5 | 03/10/16 | 1.5 | | 5.5 | 9.3 |
| B-35B-0.5 | 06/01/16 | 0.5 | East | **15.6** | -- |
| B-35B-1.3 | 06/01/16 | 1.3 | | **28.4** | -- |
| B-44A-0.5 | 06/01/14 | 0.5 | West | 6.4 | -- |
| B-44A-1.2 | 06/01/14 | 1.2 | | 3.7 | -- |
| B-44B-0.5 | 06/01/14 | 0.5 | Middle | 3.0 | -- |
| B-44B-1 | 06/01/14 | 1 | | 3.4 | -- |
| B-44C-0.5 | 06/01/14 | 0.5 | East | 3.8 | -- |
| B-44C-1.5 | 06/01/14 | 1.5 | | 2.9 | -- |
| B-13-0.5 | 03/10/16 | 0.5 | Middle | **26.9** | 31.8 |
| B-13-1.5 | 03/10/16 | 1.5 | | **11.1** | 19.7 |
| **Applicable Regulatory Screening Values** | | | | | |
| **DTSC-SLs for Residential Soil[1]** | | | | **0.067** | **80** |
| **DTSC-SL for Industrial/Commercial Soil[1]** | | | | **0.25** | **320** |
| **RWQCB ESL for Residential Soil[2]** | | | | **0.067** | **80** |
| **RWQCB ESL for Commercial/industrial Soil[2]** | | | | **0.31** | **320** |
| **Approximate Upper Limit of Expected Background** | | | | **8** | **--** |

**Table 1 - Draft**
**Summary of Soil Analytical Data - Arsenic and Lead**
**Phase II Environmental Site Assessment**
**San Francisco Bay at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample (Depth bgs) | General Direction from Proposed Trail Alignment | Metals (Units in Milligrams per Kilogram) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| **Segment B** | | | | | |
| B-14-0.5 | 03/08/16 | 0.5 | Middle | **26.0** | 10.8 |
| B-14-1.5 | 03/08/16 | 1.5 | | 5.5 | 12.2 |
| B-43A-0 | 05/31/16 | 0 | West | 6.6 | -- |
| B-43A-1.5 | 05/31/16 | 1.5 | | 6.8 | -- |
| B-43B-0 | 05/31/16 | 0 | Middle | 5.9 | -- |
| B-43C-0 | 05/31/16 | 0 | East | 7.5 | -- |
| B-43C-1.5 | 05/31/16 | 1.5 | | 5.0 | -- |
| B-42A-0 | 05/31/16 | 0 | West | **9.3** | -- |
| B-42A-1.5 | 05/31/16 | 1.5 | | **12.1** | -- |
| B-42B-0 | 05/31/16 | 0.0 | Middle | **13.4** | -- |
| B-42B-1.5 | 05/31/16 | 1.5 | | 7.0 | -- |
| B-42C-0 | 05/31/16 | 0 | East | 5.9 | -- |
| B-42C-1.5 | 05/31/16 | 1.5 | | 5.0 | -- |
| B-15-0.5 | 03/08/16 | 0.5 | West | 2.8 | 8.9 |
| B-15-1.5 | 03/08/16 | 1.5 | | 6.1 | 19.9 |
| B-15A-0 | 05/31/16 | 0 | Middle | **8.9** | -- |
| B-15A-1.5 | 05/31/16 | 1.5 | | **8.3** | -- |
| B-15B-0 | 05/31/16 | 0 | East | 4.2 | -- |
| B-15B-1.5 | 05/31/16 | 1.5 | | **9.9** | -- |
| B-41A-0 | 05/31/16 | 0 | West | 3.3 | -- |
| B-41A-1.5 | 05/31/16 | 1.5 | | 6.1 | -- |
| B-41B-0 | 05/31/16 | 0 | Middle | 4.8 | -- |
| B-41B-1.5 | 05/31/16 | 1.5 | | 4.2 | -- |
| B-41C-0 | 05/31/16 | 0 | East | **36.2** | -- |
| B-41C-1.5 | 05/31/16 | 1.5 | | 7.3 | -- |
| **Applicable Regulatory Screening Values** | | | | | |
| **DTSC-SLs for Residential Soil[1]** | | | | **0.067** | **80** |
| **DTSC-SL for Industrial/Commercial Soil[1]** | | | | **0.25** | **320** |
| **RWQCB ESL for Residential Soil[2]** | | | | **0.067** | **80** |
| **RWQCB ESL for Commercial/industrial Soil[2]** | | | | **0.31** | **320** |
| **Approximate Upper Limit of Expected Background** | | | | **8** | **--** |

**Table 1 - Draft**
**Summary of Soil Analytical Data - Arsenic and Lead**
**Phase II Environmental Site Assessment**
**San Francisco Bay at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample (Depth bgs) | General Direction from Proposed Trail Alignment | Metals (Units in Milligrams per Kilogram) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| B-16-0.3 | 03/08/16 | 0.3 | West | 6.1 | 12.1 |
| B-16-1.5 | 03/08/16 | 1.5 | | 6.2 | 11.4 |
| B-16A-0 | 05/31/16 | 0 | Middle | 7.7 | -- |
| B-16A-1.5 | 05/31/16 | 1.5 | | 7.3 | -- |
| B-16B-0 | 05/31/16 | 0 | East | **29.4** | -- |
| B-16B-1.5 | 05/31/16 | 1.5 | | **23.3** | -- |
| B-17-0.5 | 03/09/16 | 0.5 | West | 2.5 | 14.8 |
| B-17-1.5 | 03/09/16 | 1.5 | | 4.5 | 10.3 |
| B-17A-0.4 | 05/31/16 | 0.4 | Middle | 4.2 | -- |
| B-17A-1.5 | 05/31/16 | 1.5 | | 3.1 | -- |
| B-17B-0.4 | 05/31/16 | 0.4 | East | 2.9 | -- |
| B-17B-1.5 | 05/31/16 | 1.5 | | 3.4 | -- |
| B-40A-0.2 | 05/31/16 | 0.2 | West | 1.6 | -- |
| B-40A-1.5 | 05/31/16 | 1.5 | | 5.8 | -- |
| B-40B-0.2 | 05/31/16 | 0.2 | Middle | 3.4 | -- |
| B-40B-1.5 | 05/31/16 | 1.5 | | **ND (<10.0)** | -- |
| B-40C-0.2 | 05/31/16 | 0.2 | East | 3.4 | -- |
| B-40C-1.5 | 05/31/16 | 1.5 | | 3.1 | -- |
| B-18-0.5 | 03/09/16 | 0.5 | Middle | 3.8 | 11.0 |
| B-18-1.5 | 03/09/16 | 1.5 | | 4.0 | 14.0 |
| B-19-0.5 | 03/09/16 | 0.5 | Middle | ND (1.0) | ND (1.0) |
| B-19-1.5 | 03/09/16 | 1.5 | | 4.7 | 11.2 |
| B-20-0.3 | 03/09/16 | 0.3 | Middle | 4.3 | 9.6 |
| B-21-0.5 | 03/09/16 | 0.5 | Middle | 3.3 | 9.2 |
| B-21-1.5 | 03/09/16 | 1.5 | | 5.5 | 10.2 |
| B-22-0.4 | 03/09/16 | 0.4 | North | 4.1 | 69.5 |
| B-23-0.5 | 03/09/16 | 0.5 | West | 1.4 | 6.1 |
| B-23-1.5 | 03/09/16 | 1.5 | | 1.6 | 2.3 |
| B-24-0.3 | 03/09/16 | 0.3 | Middle | 2.0 | 5.7 |
| **Applicable Regulatory Screening Values** | | | | | |
| **DTSC-SLs for Residential Soil[1]** | | | | **0.067** | **80** |
| **DTSC-SL for Industrial/Commercial Soil[1]** | | | | **0.25** | **320** |
| **RWQCB ESL for Residential Soil[2]** | | | | **0.067** | **80** |
| **RWQCB ESL for Commercial/industrial Soil[2]** | | | | **0.31** | **320** |
| **Approximate Upper Limit of Expected Background** | | | | **8** | **--** |

**Table 1 - Draft**
**Summary of Soil Analytical Data - Arsenic and Lead**
**Phase II Environmental Site Assessment**
**San Francisco Bay at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample (Depth bgs) | General Direction from Proposed Trail Alignment | Metals (Units in Milligrams per Kilogram) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| B-25-0.5 | 03/09/16 | 0.5 | West | 4.5 | 34.5 |
| B-25-1.5 | 03/09/16 | 1.5 | | 2.8 | 12.9 |
| B-26-0.5 | 03/09/16 | 1.5 | Middle | 3.7 | 14.5 |
| B-27-0.5 | 03/09/16 | 0.5 | Middle | 6.8 | 15.5 |
| B-27-1.5 | 03/09/16 | 1.5 | | 3.7 | 14.7 |
| B-30-0.2 | 03/09/16 | 0.2 | East | 4.0 | 19.2 |
| B-30-1.5 | 03/09/16 | 1.5 | | 4.0 | 16.3 |
| B-28-0.3 | 03/09/16 | 0.3 | East | 3.0 | 16.9 |
| B-29-0 | 03/09/16 | 0.0 | East | 4.4 | 10.4 |
| B-31-0.5 | 03/09/16 | 0.5 | East | 7.3 | 14.6 |
| B-31-1.5 | 03/09/16 | 1.5 | | 6.1 | 11.8 |
| B-39A-0 | 05/31/16 | 0 | West | **43.3** | -- |
| B-39A-1.5 | 05/31/16 | 1.5 | | **39.4** | -- |
| B-39B-0 | 05/31/16 | 0 | Middle | **15.0** | -- |
| B-39B-1.5 | 05/31/16 | 1.5 | | **12.1** | -- |
| B-39C-0 | 05/31/16 | 0 | East | 3.7 | -- |
| B-39C-1.5 | 05/31/16 | 1.5 | | 3.8 | -- |
| B-38A-0.5 | 05/31/16 | 0.5 | West | 1.8 | -- |
| B-38A-1.5 | 05/31/16 | 1.5 | | 4.2 | -- |
| B-38B-0.2 | 05/31/16 | 0.2 | Middle | 2.4 | -- |
| B-38B-1.5 | 05/31/16 | 1.5 | | 4.4 | -- |
| B-38C-0.5 | 05/31/16 | 0.5 | East | 3.2 | -- |
| B-38C-1.5 | 05/31/16 | 1.5 | | 6.6 | -- |
| B-32-1.5 | 03/09/16 | 1.5 | East | 2.9 | 10.6 |
| B-33A-0.2 | 05/31/16 | 0.2 | West | 1.9 | -- |
| B-33A-1.5 | 05/31/16 | 1.5 | | 4.6 | -- |
| B-33-0.2 | 03/09/16 | 0.2 | Middle | 2.3 | 7.7 |
| B-33B-0 | 05/31/16 | 0 | East | 1.9 | -- |
| B-33B-1.5 | 05/31/16 | 1.5 | | 1.6 | -- |
| **Applicable Regulatory Screening Values** | | | | | |
| **DTSC-SLs for Residential Soil[1]** | | | | **0.067** | **80** |
| **DTSC-SL for Industrial/Commercial Soil[1]** | | | | **0.25** | **320** |
| **RWQCB ESL for Residential Soil[2]** | | | | **0.067** | **80** |
| **RWQCB ESL for Commercial/industrial Soil[2]** | | | | **0.31** | **320** |
| **Approximate Upper Limit of Expected Background** | | | | **8** | **--** |

**Table 1 - Draft**
**Summary of Soil Analytical Data - Arsenic and Lead**
**Phase II Environmental Site Assessment**
**San Francisco Bay at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample (Depth bgs) | General Direction from Proposed Trail Alignment | Metals (Units in Milligrams per Kilogram) | |
|---|---|---|---|---|---|
| | | | | Arsenic | Lead |
| B-37A-0 | 05/31/16 | 0 | West | 3.6 | -- |
| B-37A-1.5 | 05/31/16 | 1.5 | | 3.3 | -- |
| B-37B-0 | 05/31/16 | 0 | Middle | 4.7 | -- |
| B-37B-1.5 | 05/31/16 | 1.5 | | 5.5 | -- |
| B-37C-0 | 05/31/16 | 0 | East | 4.5 | -- |
| B-37C-1.5 | 05/31/16 | 1.5 | | 3.5 | -- |
| B-36A-0 | 05/31/16 | 0 | West | 4.9 | -- |
| B-36A-1.5 | 05/31/16 | 1.5 | | 6.4 | -- |
| B-36-0.5 | 03/09/16 | 0.5 | Middle | **11.8** | 26.9 |
| B-36-1.5 | 03/09/16 | 1.5 | | **10.1** | 14.6 |
| B-36B-0 | 05/31/16 | 0 | East | 6.4 | -- |
| B-36B-1.5 | 05/31/16 | 1.5 | | 4.2 | -- |
| **Applicable Regulatory Screening Values** | | | | | |
| **DTSC-SLs for Residential Soil[1]** | | | | **0.067** | **80** |
| **DTSC-SL for Industrial/Commercial Soil[1]** | | | | **0.25** | **320** |
| **RWQCB ESL for Residential Soil[2]** | | | | **0.067** | **80** |
| **RWQCB ESL for Commercial/industrial Soil[2]** | | | | **0.31** | **320** |
| **Approximate Upper Limit of Expected Background** | | | | **8** | **--** |

**Notes:**

[1] = Arsenic and lead by United States Environmental Protection Agency (EPA) Method 6010B.

[2] = Department of Toxic Substances Control (DTSC)-modified screening levels (DTSC-SLs) for residential soil (Last updated June 2016).

[3] = U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential soil (Last updated May 2016).

ND = Analyte was NOT DETECTED at a concentration greater than the reportling limit shown (laboratory reporting limit is in parenthases).

Bolded and shaded values indicate an arsenic concentration or laboratory reporting limit exceeded the  appproximate upper limit of expected background and thata lead concentration exceeded the applicable DTSC-SL for comercial/industrial land uses.

**Table 2 - Draft**
**Summary of Soil Analytical Data - PAHs**
**Phase II Environmental Site Assessment**
**San Francisco Bay Trail at Point Molate Project**
**Richmond, California**

| Sample Location Identification | Date Sampled | Sample Depth (Feet bgs) | PAHs[1] (Units in Milligrams per Kilogram) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(k)fluoranthene | Benzo(a)pyrene | Benzo(g,h,i)perylene | Chrysene | Dibenzo(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene |
| B-37C-0 | 5/31/16 | 0 | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) |
| B-42B-0 | 5/31/16 | 0 | 0.0333 | 0.204 | 2.39 | 1.47 | 1.87 | ND (<0.0250) | **1.23** | 0.713 | 2.62 | 0.283 | 3.49 | 0.282 | 0.798 | 0.128 | 1.96 | 2.74 |
| B-43B-0 | 5/31/16 | 0 | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | 0.0943 | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | 0.0873 | 0.0837 |
| B-45B-0 | 5/31/16 | 0 | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) |
| B-47B-0 | 5/31/16 | 0 | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) | ND (<0.0250) |
| **Applicable Regulatory Screening Values for Residential Soil** | | | | | | | | | | | | | | | | | | |
| **EPA RSLs for Residential Soil[2]** | | | **3,600** | **NL** | **18,000** | **0.16** | **0.16** | **1.6** | **0.016** | **NL** | **16** | **0.016** | **2,400** | **2,400** | **0.16** | **3.8** | **NL** | **1,800** |
| **EPA RSLs for Commercial/Industrial Soil[2]** | | | **45,000** | **NL** | **230,000** | **2.9** | **2.9** | **29** | **0.29** | **NL** | **290** | **0.29** | **30,000** | **30,000** | **2.9** | **17** | **NL** | **23,000** |
| **RWQCB ESL for Residential Soil[3]** | | | **3,600** | **NL** | **18,000** | **0.16** | **0.16** | **1.6** | **0.16** | **NL** | **15** | **0.016** | **2,400** | **2,400** | **0.16** | **3.3** | **NL** | **1,800** |
| **RWQCB ESL for Commercial/Industrial Soil[3]** | | | **45,000** | **NL** | **230,000** | **2.9** | **2.9** | **29** | **0.29** | **NL** | **260** | **0.29** | **2,400** | **30,000** | **2.9** | **14** | **NL** | **23,000** |

**Notes:**

[1] = Polynuclear aromatic hydrocarbons by United States Environmental Protection Agency (EPA) Method 8270C-selective ion monitoring (SIM).

[2] = U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential soil (Last updated May 2016).

[4] = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential shallow soil exposure (less than or equal to 10-feet below ground surface [bgs]). (Interim Final - February 2016).

ND = Analyte was NOT DETECTED at a concentration greater than the reportling limit shown (laboratory reporting limit is in parenthases).

Bolded and shaded values indicate a concentration exceeded the applicable EPA RSL regulatory screening value for commercial/industrial soil.

NL = Not listed.

# PLATES

# San Francisco Bay Trail at Point Molate

## Proposed Alignment Overview Map

Legend

Proposed Trail Alignment

1 in. = 2,000 ft.

0 1,000 2,000 ft.

N

Credits: ESRI USA Topo basemap

Date: 12/31/2015

Author: jhall

Figure 1

NCE

East Bay Regional Park District

# San Francisco Bay Trail at Point Molate

## Segment A Detail Map

Legend

- Segment A
- Segment A Alternate

1 in. = 600 ft.

0 300 600 ft.

N

Credits: ESRI World Imagery basemap

Date: 12/22/2015
Author: jhall

Figure 2

NCE

East Bay Regional Park District

# San Francisco Bay Trail at Point Molate

## Segment B Detail Map

Legend

Segment B

1 in. = 600 ft.

0 300 600 ft.

N

Credits: ESRI World Imagery basemap

Date: 12/22/2015

Author: jhall

Figure 3

NCE

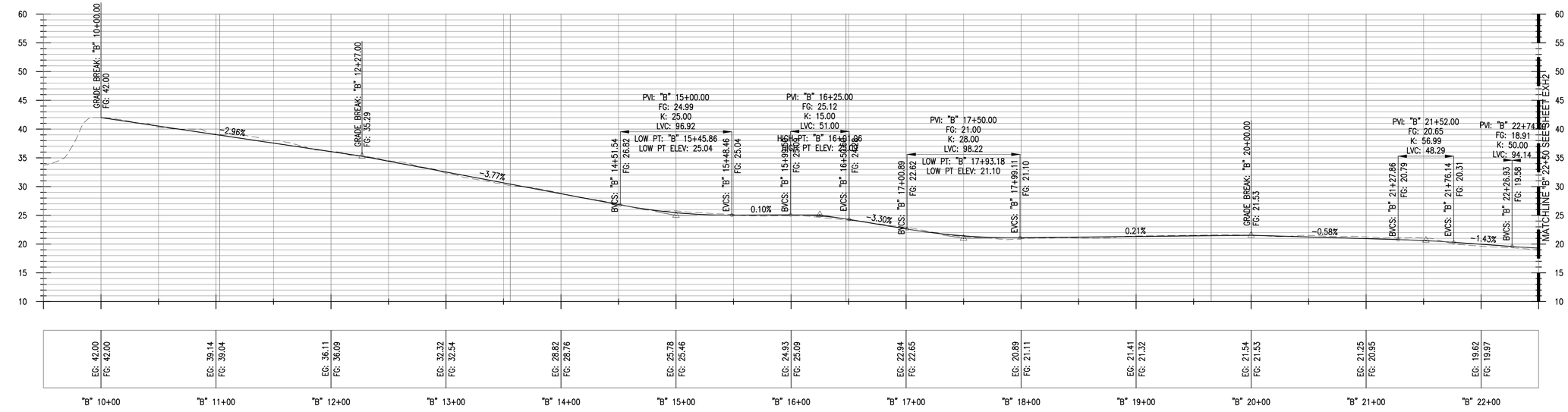
East Bay Regional Park District

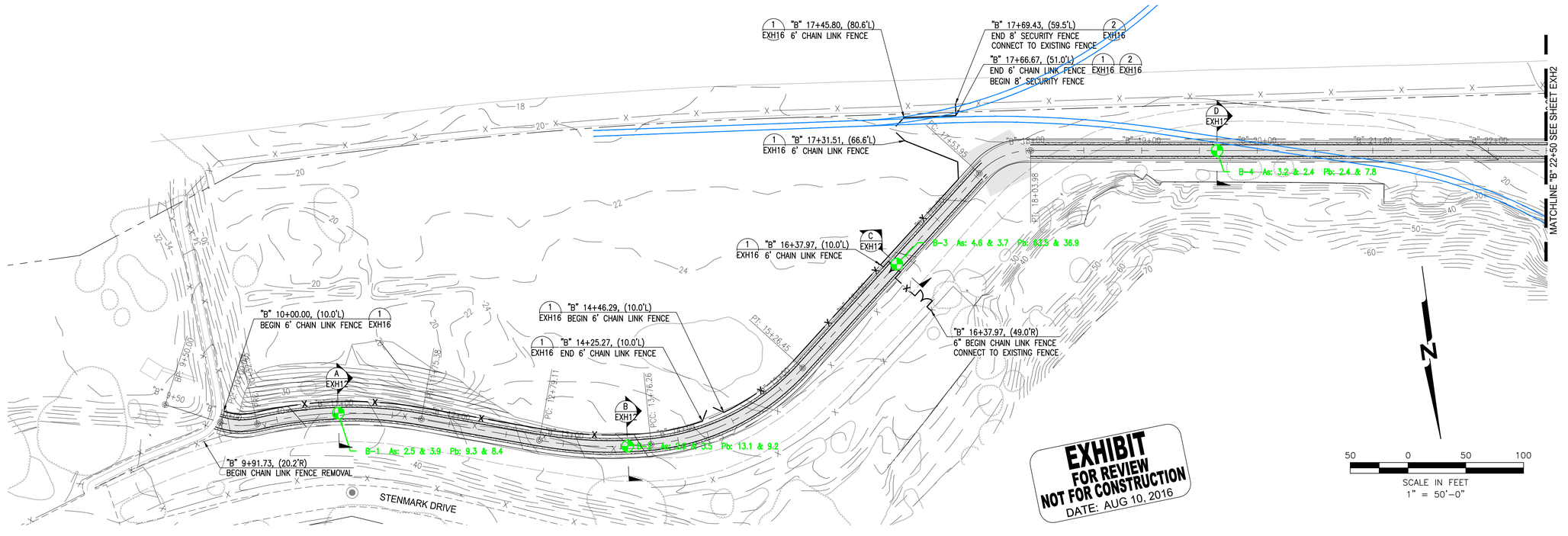
# ATTACHMENT A

# PLAN SHEETS

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE





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East Bay Regional Park District

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PARK DISTRICT
2950 PERALTA OAKS CT,
OAKLAND, CA 94605

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| DRAWN BY: | A.P. |
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DRAWING

EXH1

SHEET 1 OF 16


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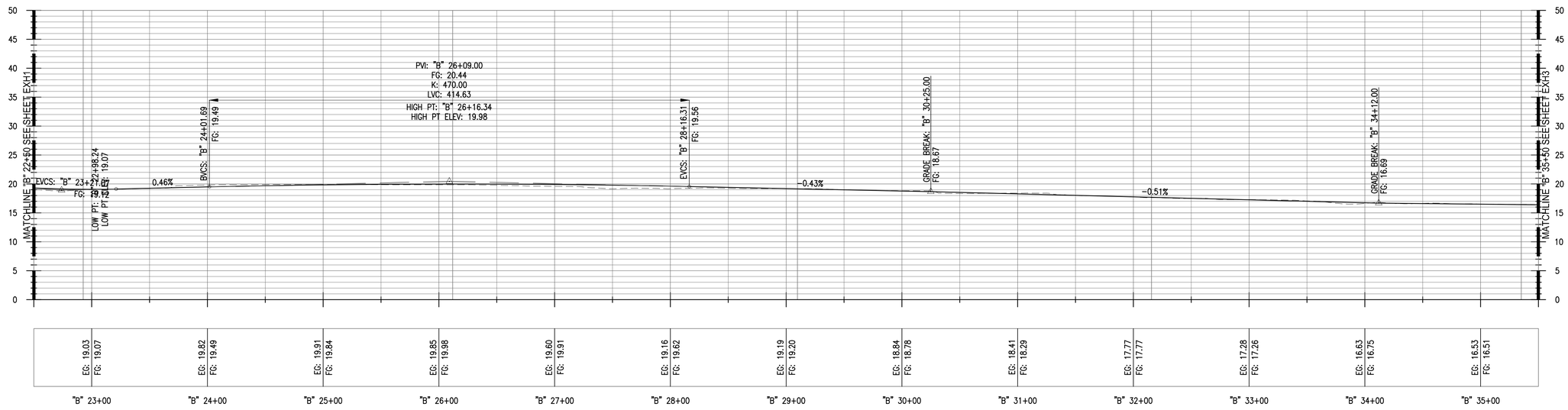


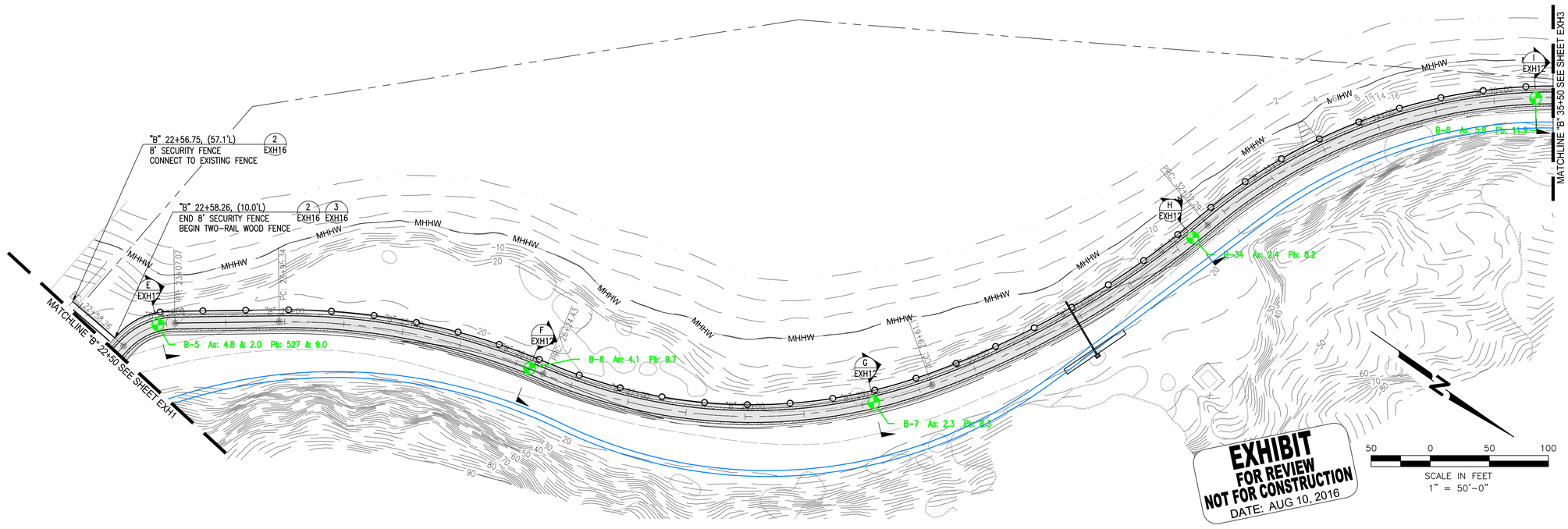



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DRAWING
EXH2

SHEET 2 OF 16


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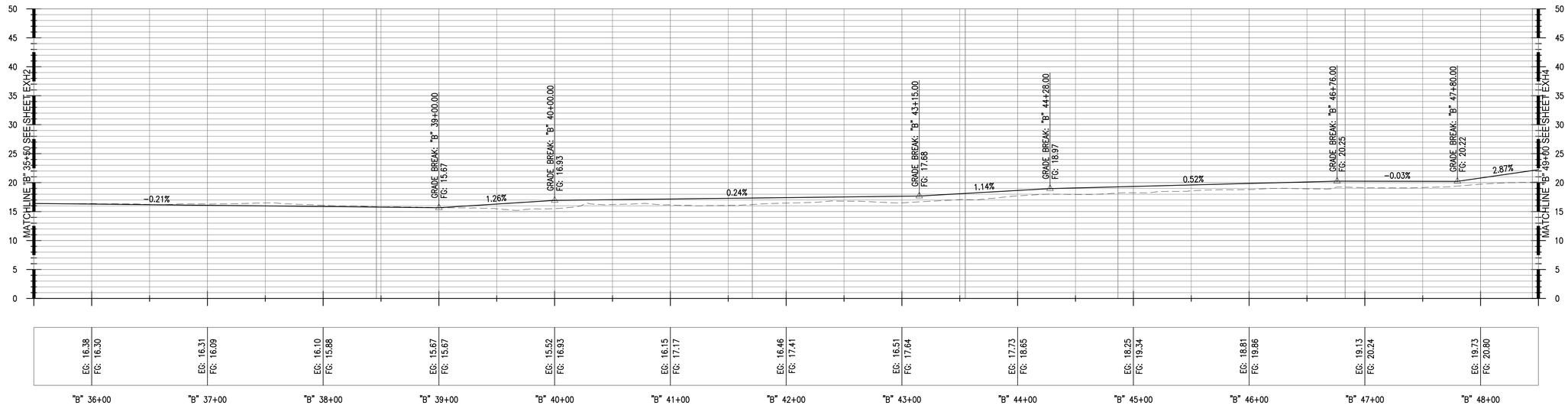
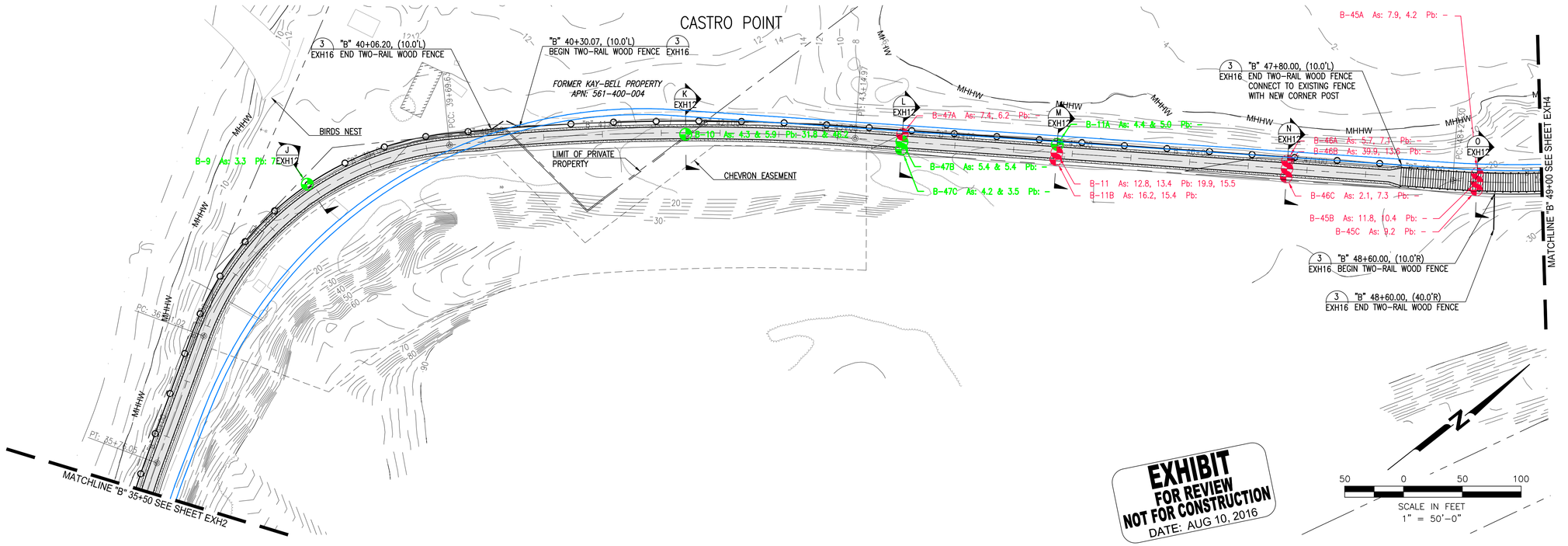
B PROFILE





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EXH3

SHEET 3 OF 16


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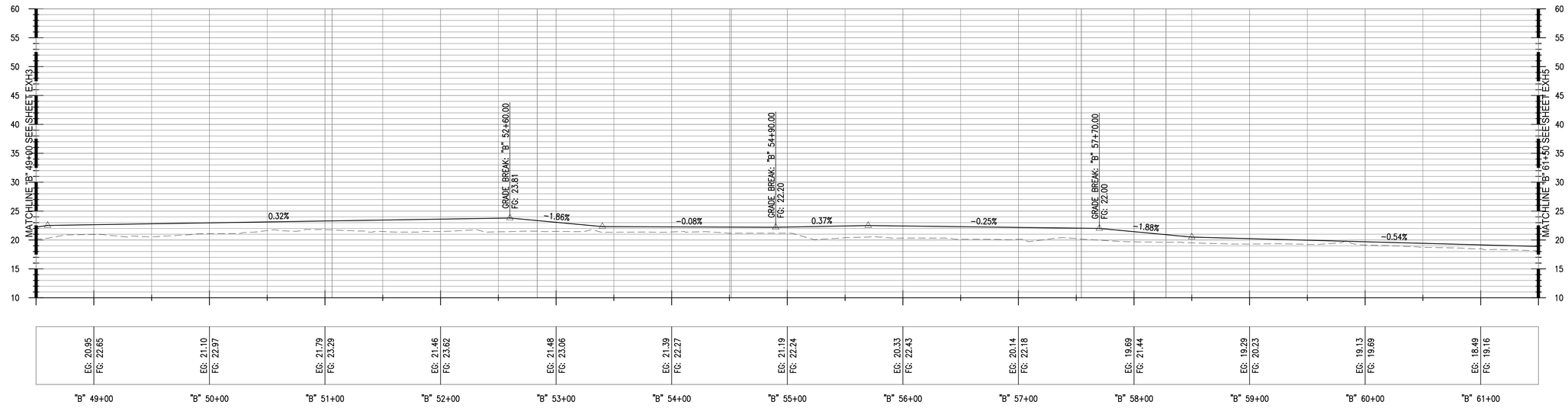


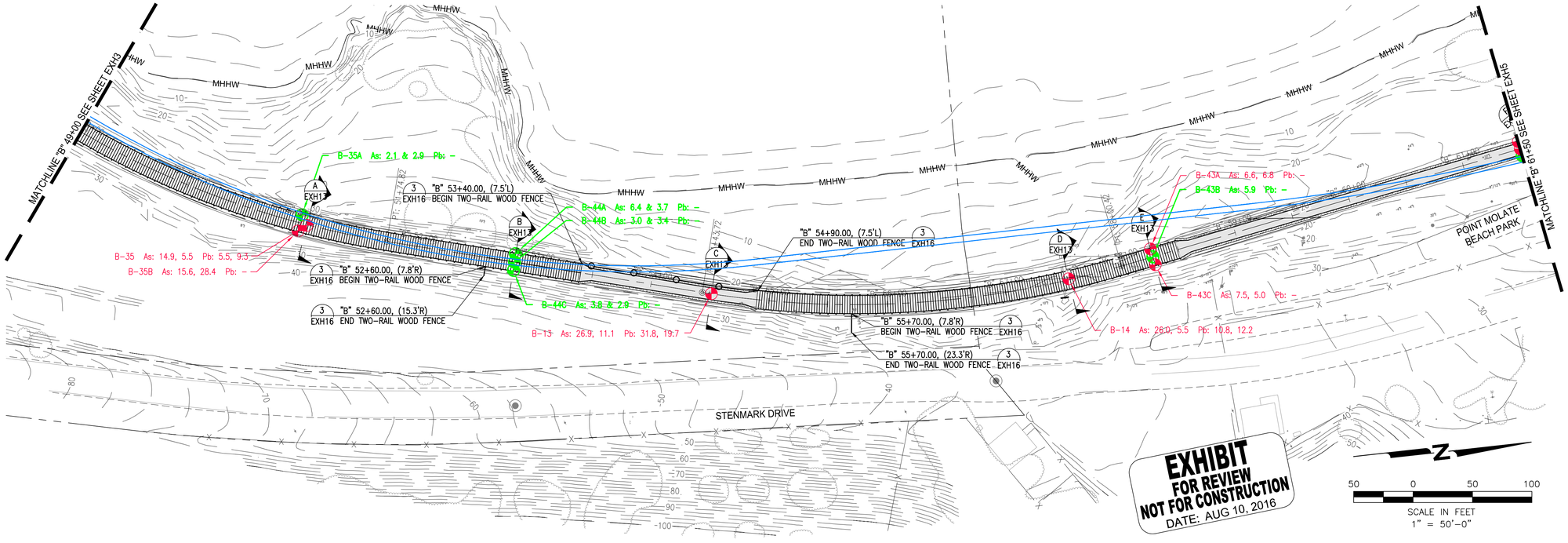


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DRAWING
EXH4

SHEET 4 OF 16

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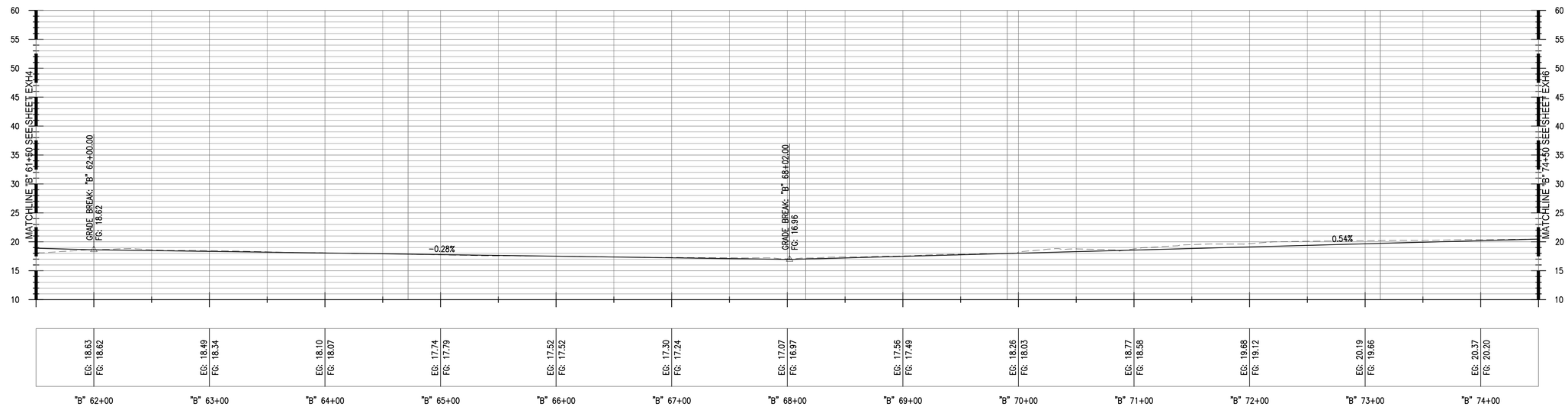
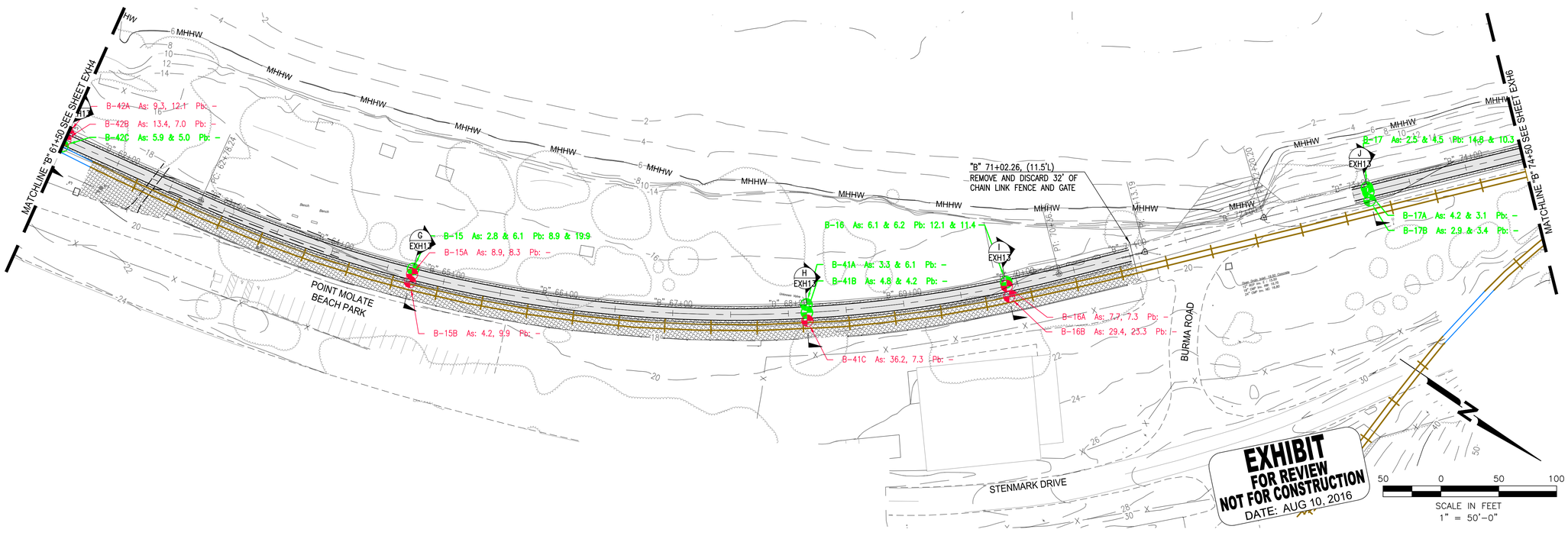
B PROFILE





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OWNER

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EAST BAY REGIONAL
PARK DISTRICT
2950 PERALTA OAKS CT,
OAKLAND, CA 94605

| NO. | DATE | DESCRIPTION |
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PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016


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SHEET TITLE

LEAD AND ARSENIC
"B" 61+50 TO "B" 74+50

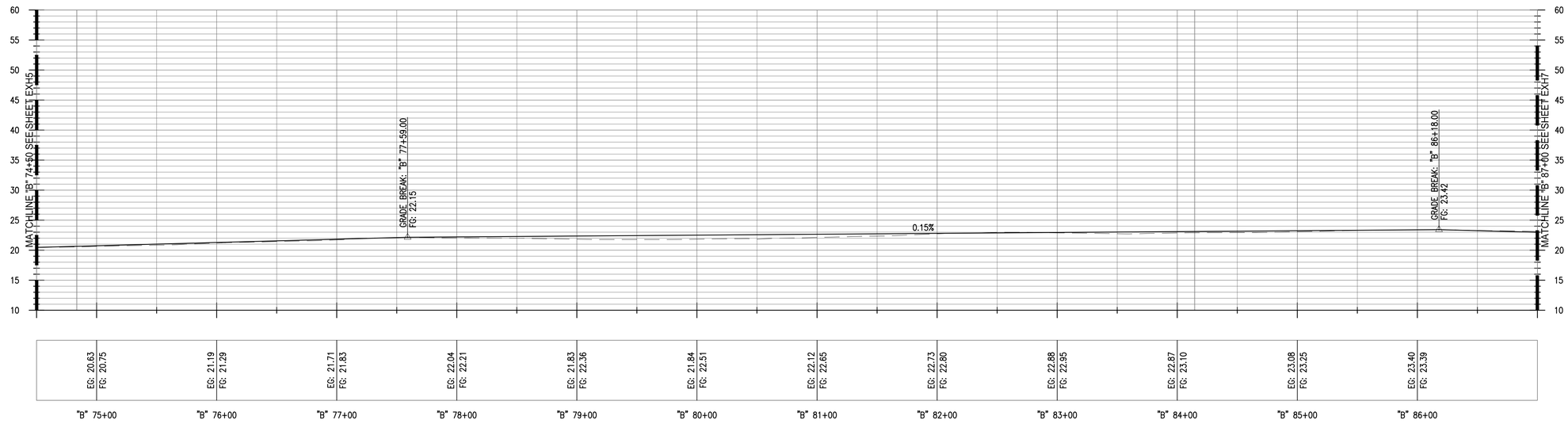
DRAWING
EXH5

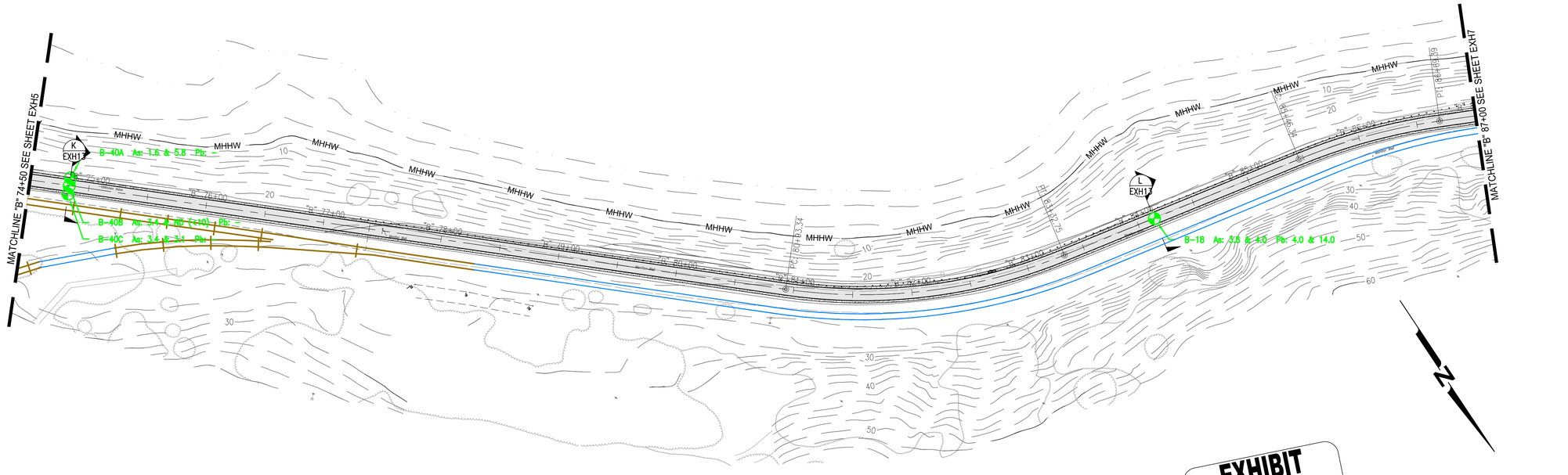
SHEET 5 OF 16


File: P:\Active Projects\East Bay Regional Park Dist – AS67\567.04.55 – Bay Trail Segment A & B\CAD\Exhibits\10. Lead and Arsenic Exhibit\EXH1-Exh5 Lead and Arsenic.dwg | Layout: Exh5 | Printed Aug 17, 2016 @ 10:55am | JD.b.20.0s (LMS Tech)

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE

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DATE: AUG 10, 2016

50 0 50 100
SCALE IN FEET
1" = 50'–0"


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PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016


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SHEET TITLE

LEAD AND ARSENIC
"B" 74+50 TO "B" 87+00

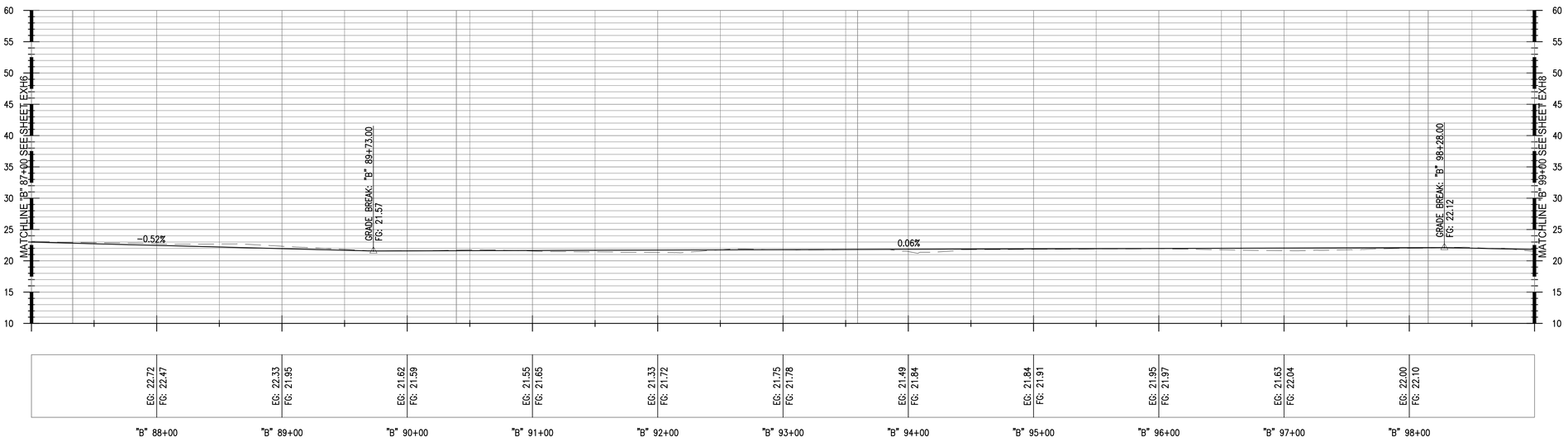
DRAWING
EXH6

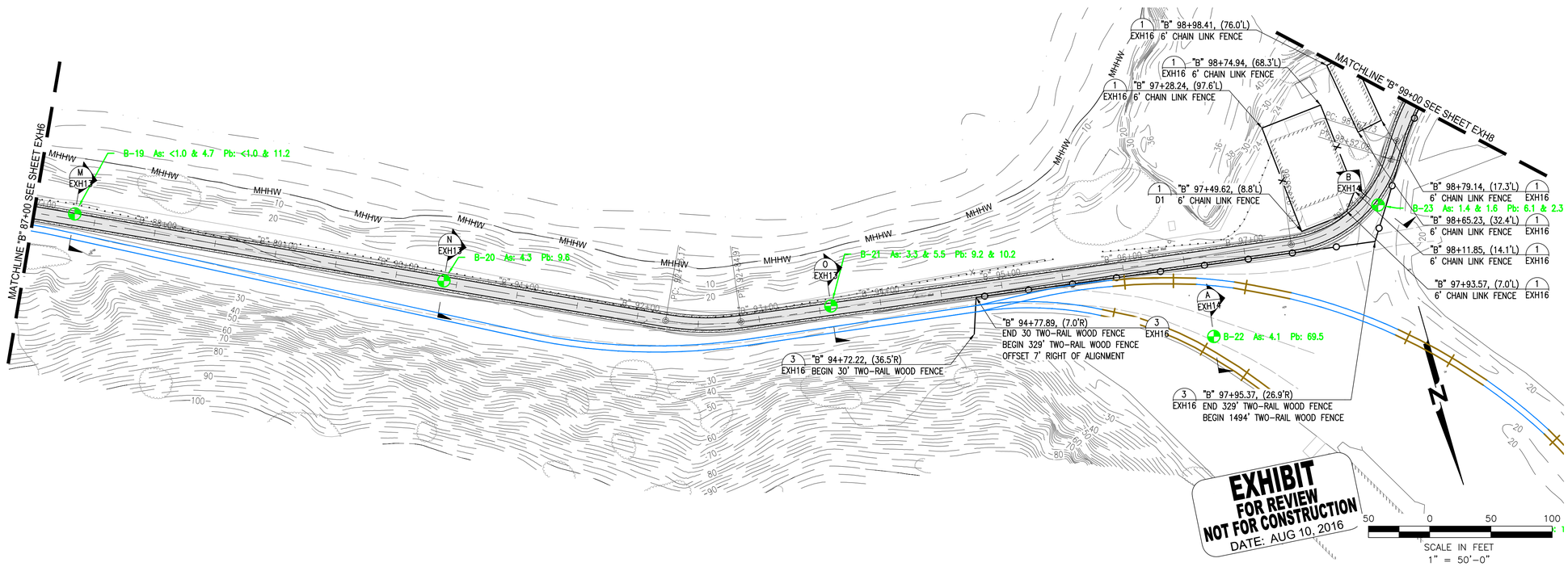
SHEET 6 OF 16


File: P:\Active Projects\East Bay Regional Park Dist – A567\567.04.55 – Bay Trail Segment A & B\CAD\Exhibits\10. Lead and Arsenic Exhibit\EXH6-EXH11 Lead and Arsenic.dwg | Layout: EXH6 | Printed Aug 17, 2016 @ 10:57am | ID: Jb.20.0s (LMS Tech)

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE





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| PROJECT NO: | 567.04.55 |
| DESIGNED BY: | J.B. |
| DRAWN BY: | A.P. |
| CHECKED BY: | DATE: |
| DATE: | 08/10/2016 |


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SHEET TITLE

LEAD AND ARSENIC
"B" 87+00 TO "B" 99+00

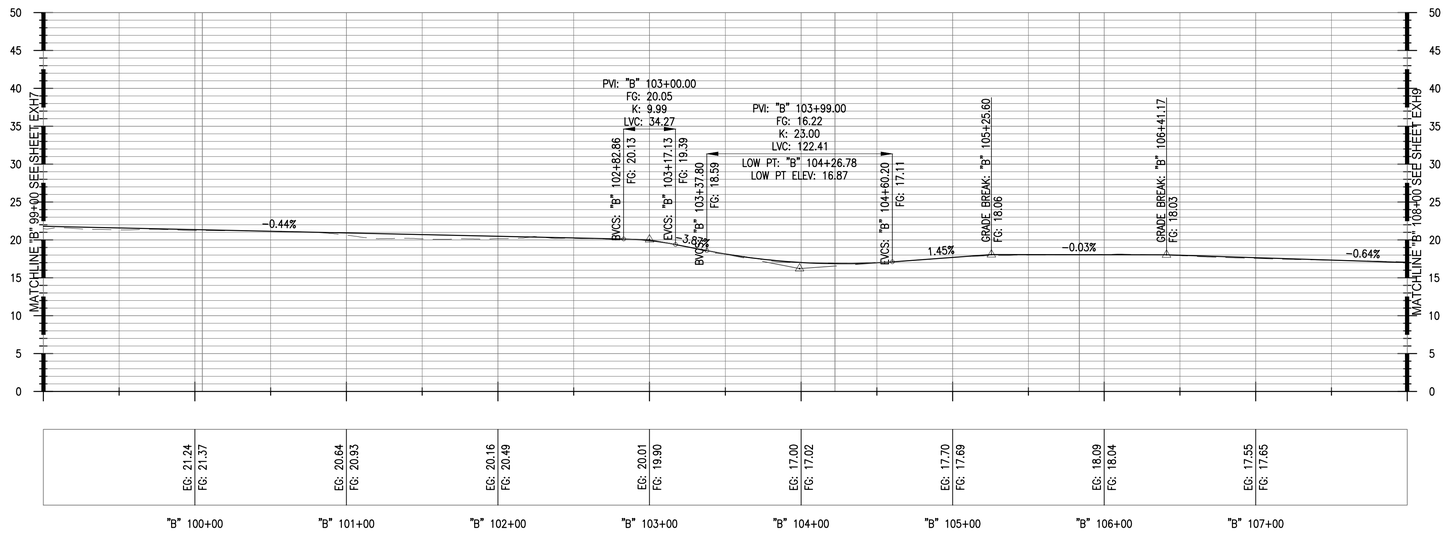
DRAWING
EXH7

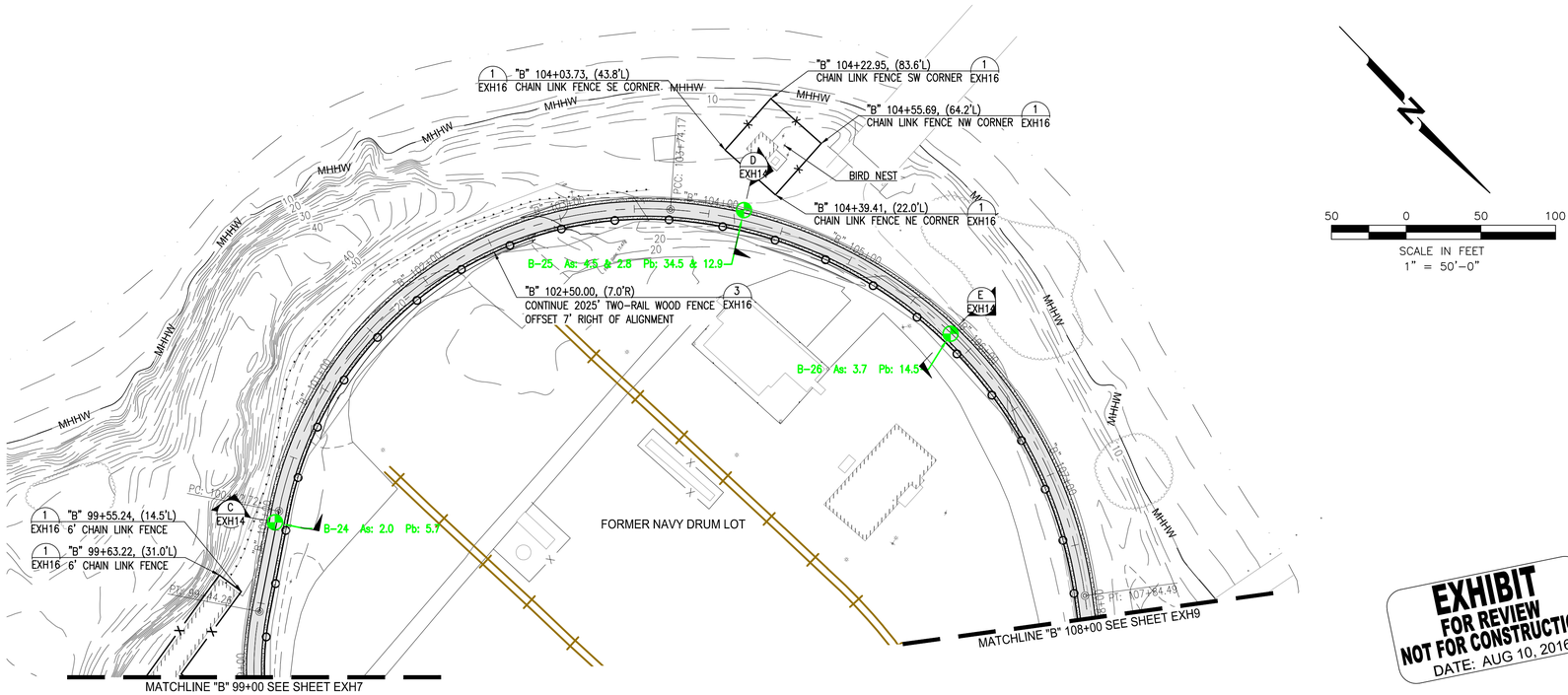
SHEET 7 OF 16


File: P:\Active Projects\East Bay Regional Park Dist - AS67\567.04.55 - Bay Trail Segment A & B\CAD\Exhibits\10. Lead and Arsenic Exhibit\EXH6-EXH11 Lead and Arsenic.dwg | Layout: EXH7 | Printed Aug 17, 2016 @ 10:58am | ID.Jb.20.0s (LMS Tech)

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE







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SHEET TITLE

LEAD AND ARSENIC
"B" 99+00 TO "B"
108+00

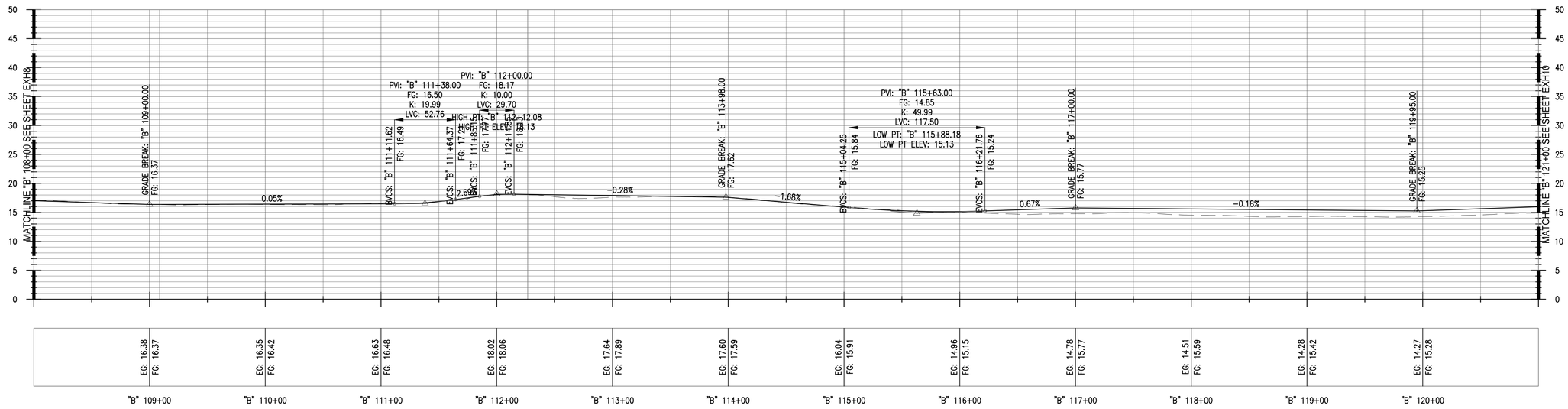
DRAWING
EXH8

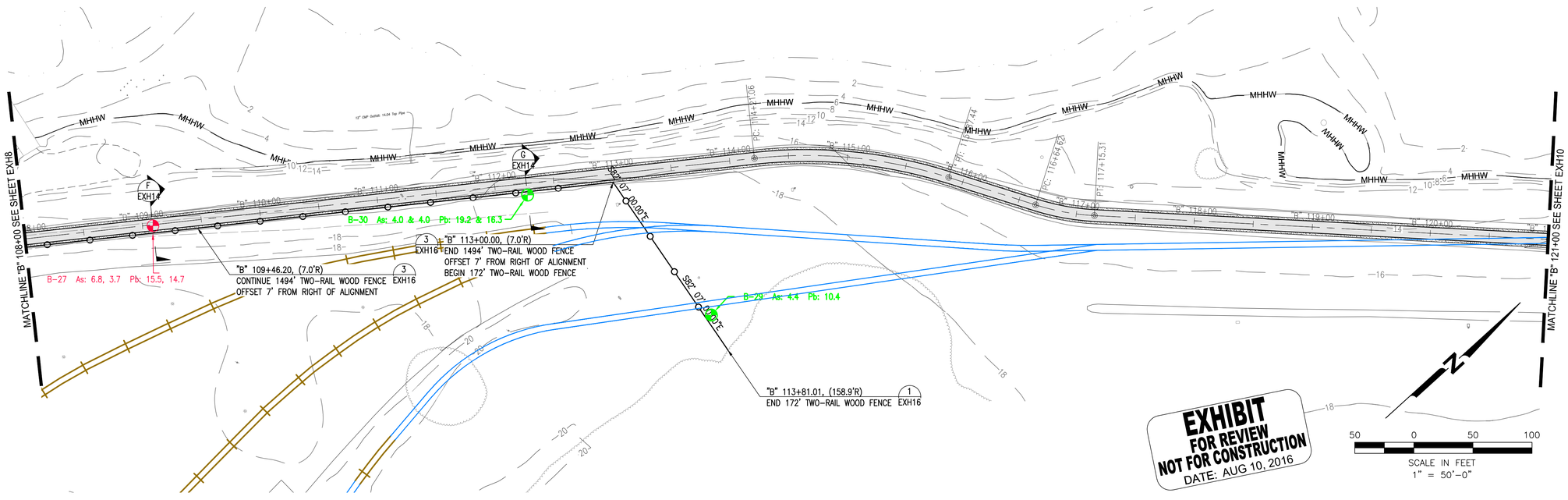
SHEET 8 OF 16

File: P:\Active Projects\East Bay Regional Park Dist - 567\567.04.55 - Bay Trail Segment A & B\CAD\Exhibits\10. Lead and Arsenic Exhibit\EXH6-EXH11 Lead and Arsenic.dwg | Layout: EXH8 | Printed Aug 17, 2016 @ 10:58am | ID: Jb.20.0s (LMS Tech)

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE





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DATE: 08/10/2016


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SHEET TITLE

LEAD AND ARSENIC
"B" 108+00 TO "B"
121+00

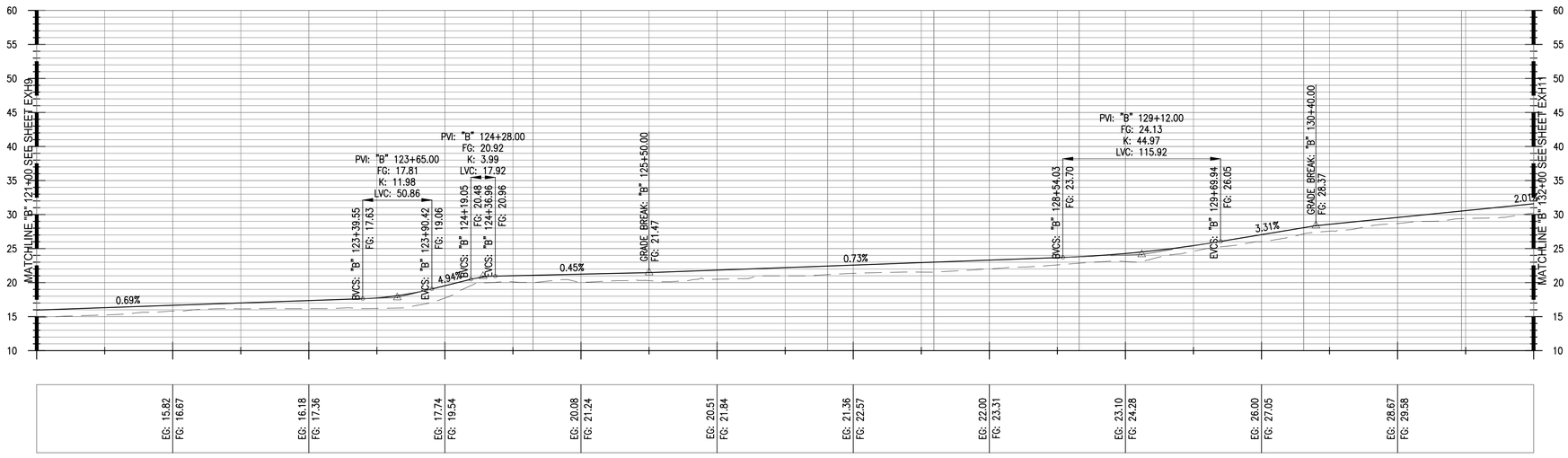
DRAWING
EXH9

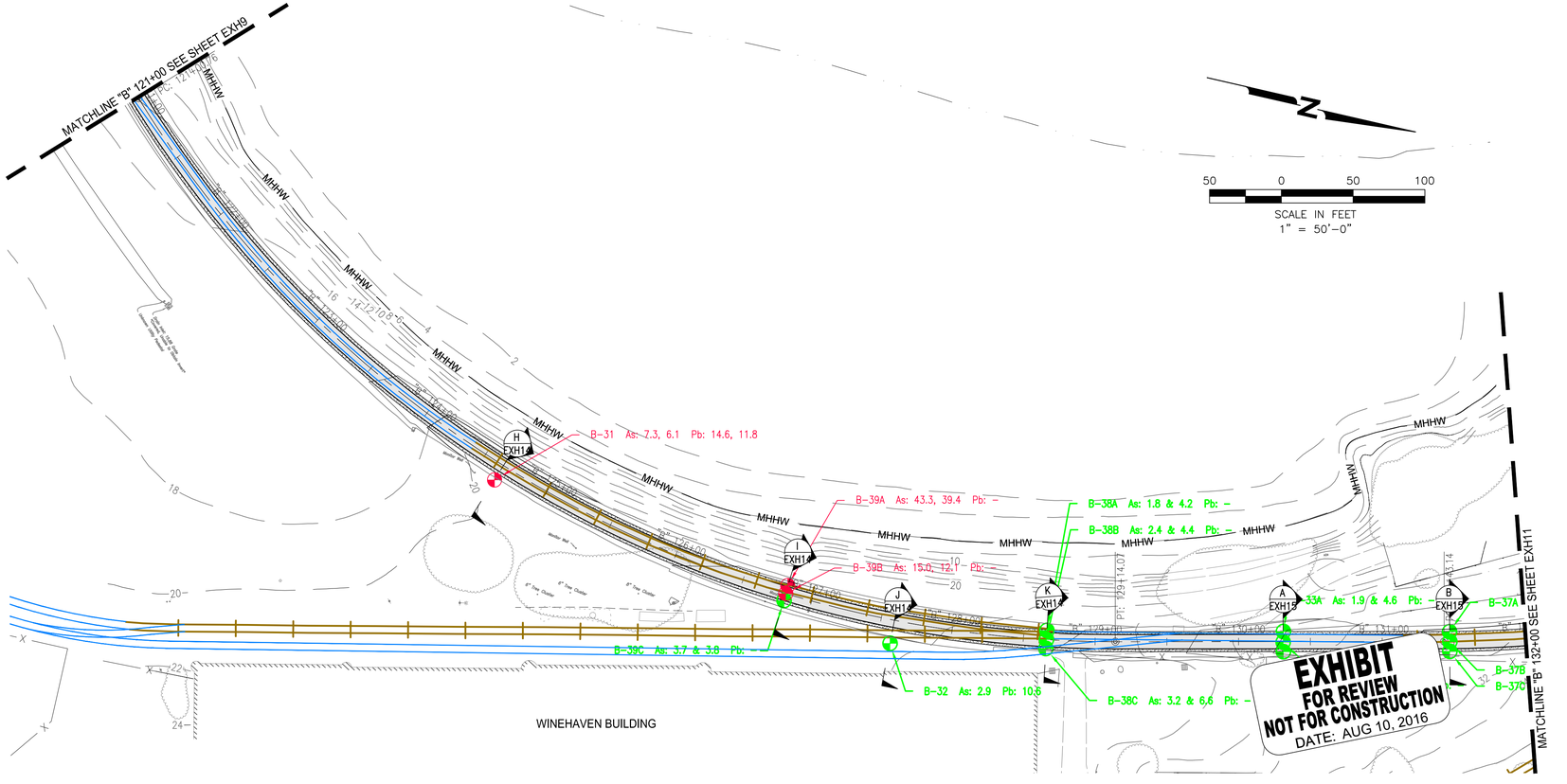
SHEET 9 OF 16


File: P:\Active Projects\East Bay Regional Park Dist - A567\567.04.55 - Bay Trail Segment A & B\CAD\Exhibits\10. Lead and Arsenic Exhibit\EXH8-EXH11 Lead and Arsenic.dwg | Layout: EXH9 | Printed Aug 17, 2016 @ 10:59am | ID.Jb.20.0s (LMS Tech)

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE





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SHEET TITLE

LEAD AND ARSENIC
"B" 121+00 TO "B"
132+00

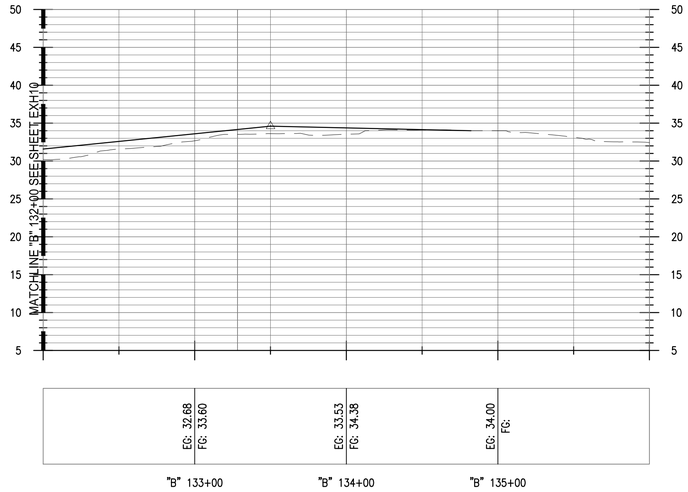
DRAWING
EXH10

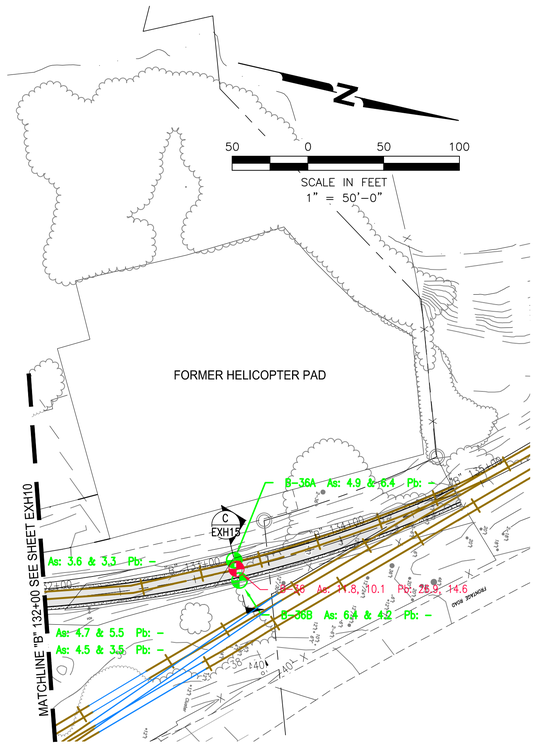
SHEET 10 OF 16


File: P:\Active Projects\East Bay Regional Park Dist - AS67\567.04.55 - Bay Trail Segment A & B\CAD\Exhibits\10_Lead and Arsenic Exhibit\EXH9-EXH11 Lead and Arsenic.dwg | Layout: EXH10 | Printed Aug 17, 2016 @ 10:59am | J. B. Zoll

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

B PROFILE

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DRAWN BY: A.P.
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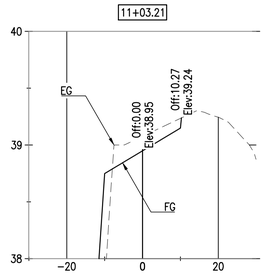
SHEET TITLE

LEAD AND ARSENIC
"B" 132+00 TO "B"
136+00

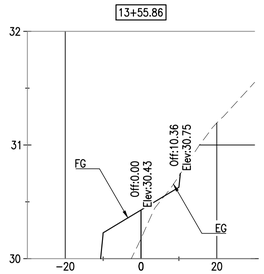
DRAWING
EXH11

SHEET 11 OF 16

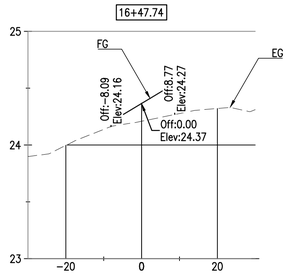
File: P:\Active Projects\East Bay Regional Park Dist – AS&T\567.04.55 – Bay Trail Segment A & B\CAD\Exhibits\10. Lead and Arsenic Exhibit\EXH6–EXH11 Lead and Arsenic.dwg | Layout: EXH11 | Printed Aug 17, 2016 @ 10:59am | ID:JbJ20.0s (LMS Tech)



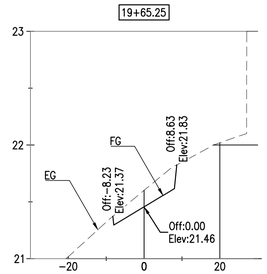

A EXH12 BORING: B–1 NTS



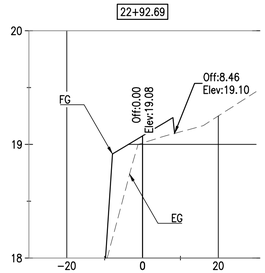

B EXH12 BORING: B–2 NTS



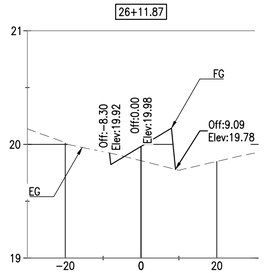

C EXH12 BORING: B–3 NTS



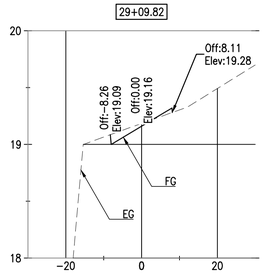

D EXH12 BORING: B–4 NTS



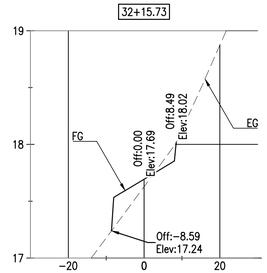

E EXH12 BORING: B–5 NTS



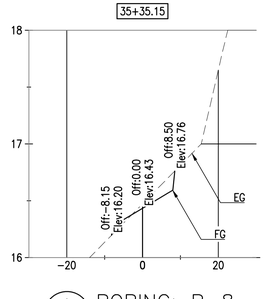

F EXH12 BORING: B–6 NTS



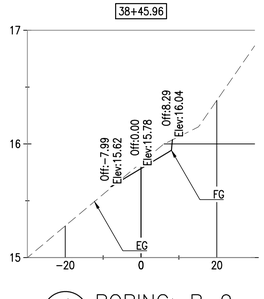

G EXH12 BORING: B–7 NTS



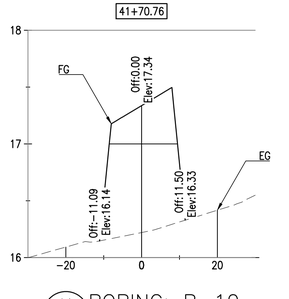

H EXH12 BORING: B–34 NTS



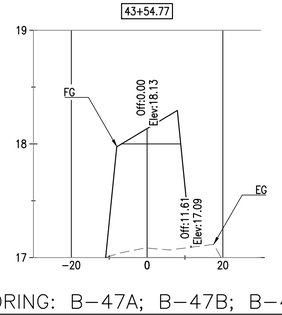

I EXH12 BORING: B–8 NTS



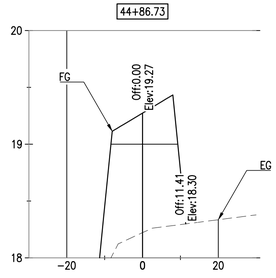

J EXH12 BORING: B–9 NTS



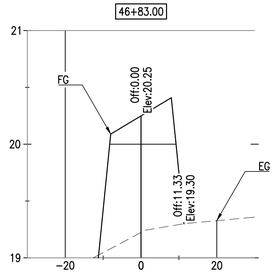

K EXH12 BORING: B–10 NTS



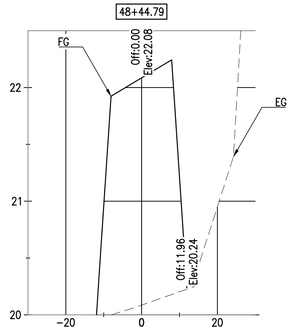

L EXH12 BORING: B–47A; B–47B; B–47C NTS




M EXH12 BORING: B–11; B–11A; B–11B NTS




N EXH12 BORING: B–46A; B–46B; B–46C NTS




O EXH12 BORING: B–45A; B–45B; B–45C NTS

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 8"

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PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016

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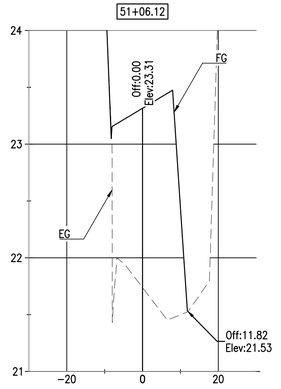
SHEET TITLE

CROSS SECTIONS
"B" 10+00 TO "B"
50+00

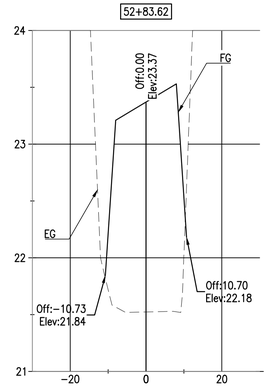
DRAWING
EXH12

SHEET 12 OF 16

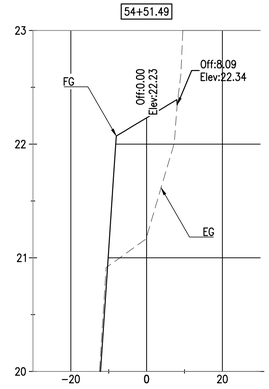
File: P:\active projects\east bay regional park dist – 0567\567.04.55 – bay trail segment o & b\CAD\Exhibits\10. road and arsenic exhibit\EXH11–EXH14 Cross Sections.dwg | Layout: EXH12 | Printed Aug 11, 2016 @ 8:58am | ID:AP:20.0s (LMS Tech)



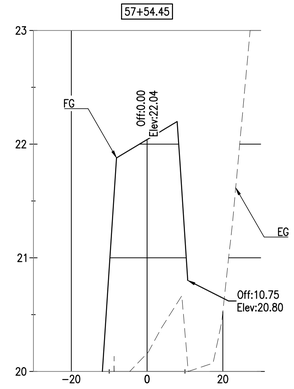

A EXH13 BORING: B–35; B–35A; B–35B
NTS



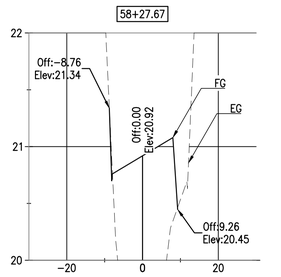

B EXH13 BORING: B–44A; B–44B; B–44C
NTS



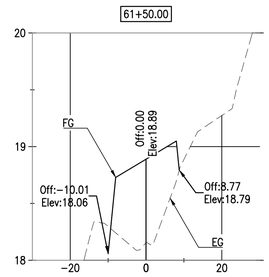

C EXH13 BORING: B–13
NTS




D EXH13 BORING: B–14
NTS




E EXH13 BORING: B–43A; B–43B; B–43C
NTS

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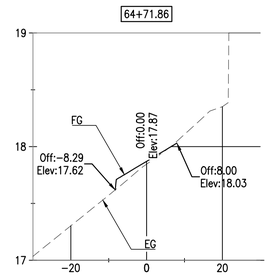
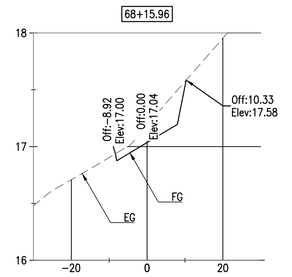
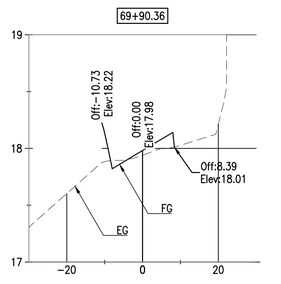
NTS




G EXH13 BORING: B–15; B–15A; B–15B
NTS




H EXH13 BORING: B–41A; B–41B; B–41C
NTS

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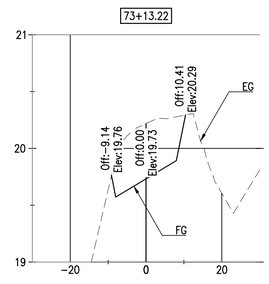
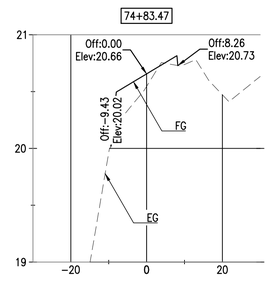
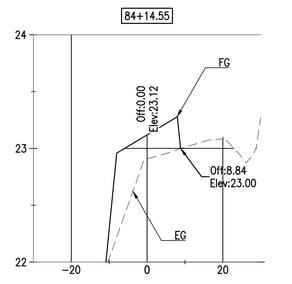
NTS



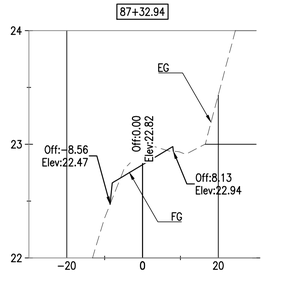

J EXH13 BORING: B–17; B–17A; B–17B
NTS



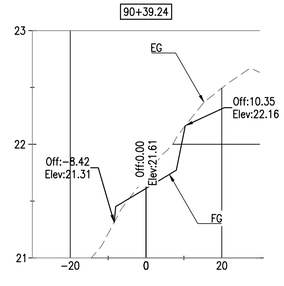

K EXH13 BORING: B–40A; B–40B; B–40C
NTS



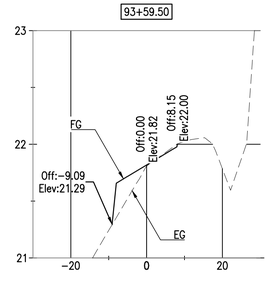

L EXH13 BORING: B–18
NTS




M EXH13 BORING: B–19
NTS




N EXH13 BORING: B–20
NTS




O EXH13 BORING: B–21
NTS

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 8"

EXHIBIT
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DATE: AUG 10, 2016

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SAN FRANCISCO
BAY TRAIL
AT
POINT MOLATE

OWNER

East Bay Regional Park District

EAST BAY REGIONAL
PARK DISTRICT
2950 PERALTA OAKS CT,
OAKLAND, CA 94605

| NO. | DATE | DESCRIPTION |
|---|---|---|
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PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016

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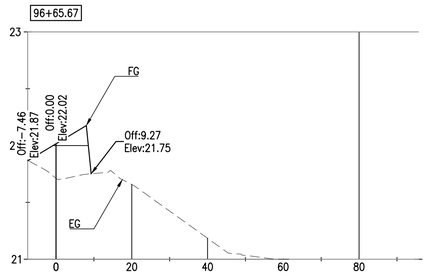
SHEET TITLE

CROSS SECTIONS
"B" 50+00 TO "B"
95+00

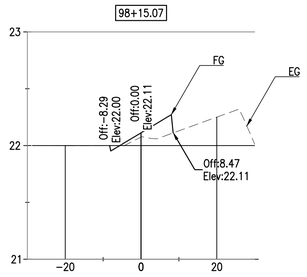
DRAWING
EXH13

SHEET 13 OF 16

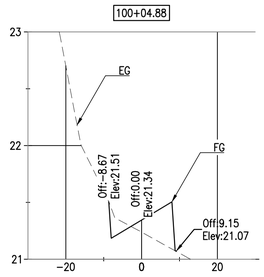
File: P:\active projects\east bay regional park dist – 0567\567.04.55 – bay trail segment a & b\CAD\Exhibits\10. lead and arsenic exhibit\EXH11-EXH14 Cross Sections.dwg | Layout: EXH13 | Printed Aug 11, 2016 @ 8:58am | ID.AP.20.0a (LMS Tech)



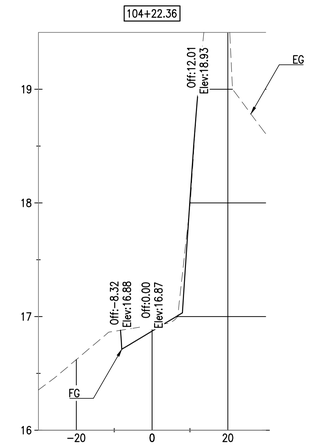

A EXH14 BORING: B−22 NTS




B EXH14 BORING: B−23 NTS




C EXH14 BORING: B−24 NTS




D EXH14 BORING: B−25 NTS




E EXH14 BORING: B−26 NTS



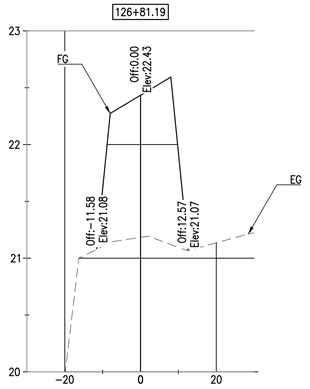

F EXH14 BORING: B−27 NTS



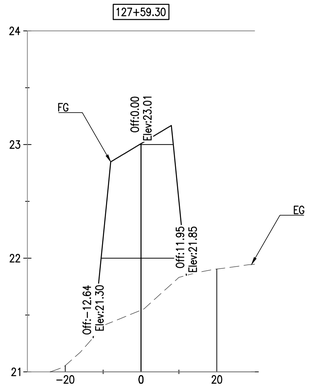

G EXH14 BORING: B−30 NTS



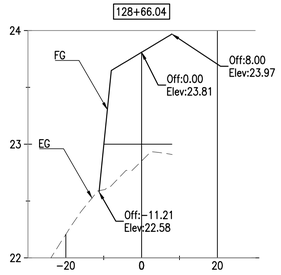

H EXH14 BORING: B−31 NTS




I EXH14 BORING: B−37A; B−37B; B−37C NTS




J EXH14 BORING: B−32 NTS




K EXH14 BORING: B−38A; B−38B; B−38C NTS

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 8"

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PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016

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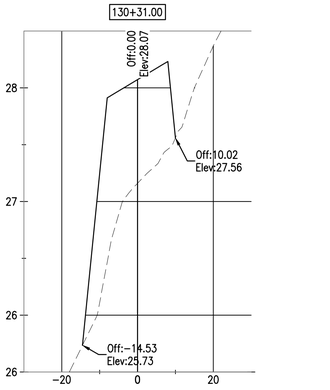
SHEET TITLE

CROSS SECTIONS
"B" 95+00 TO "B"
130+00

DRAWING
EXH14

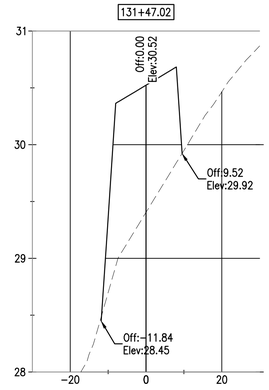
SHEET 14 OF 16

File: P:\active projects\east bay regional park dist - cd\567\567.04.55 - bay trail segment a & b\CAD\Exhibits\10. lead and arsenic exhibit\EXH11-EXH14 Cross Sections.dwg | Layout: EXH14 | Printed Aug 11, 2016 @ 8:58am | ID:AP:20.0s (LMS Tech)



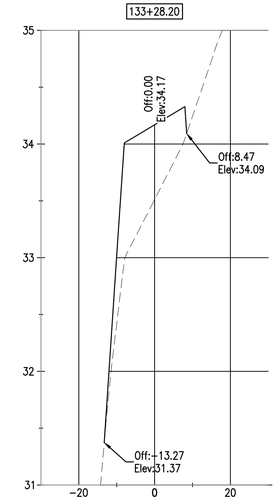

A EXH15 BORING: B-33; B-33A; B-33B

NTS




B EXH15 BORING: B-37A; B-37B; B-37C

NTS




C EXH15 BORING: B-36; B-36A; B-36B

NTS

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 8"

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PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016

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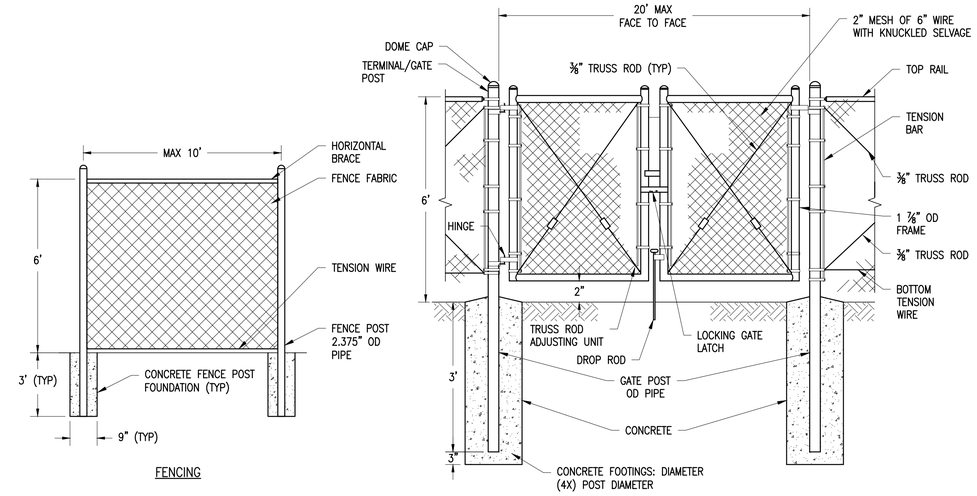
SHEET TITLE

CROSS SECTIONS
"B" 130+00 TO "B"
135+00

DRAWING
EXH15

SHEET 15 OF 16

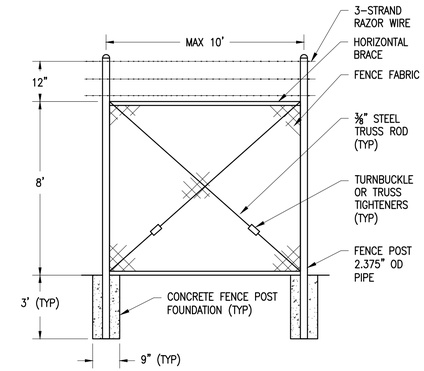
File: P:\active projects\east bay regional park dist - 0567\567.04.55 - bay trail segment a & b\CAD\Exhibits\10. lead and arsenic exhibit\EXH11-EXH14 Cross Sections.dwg | Layout: EXH15 | Printed Aug 11, 2016 @ 8:58am | D.AP.20.0a (LMS Tech)




| GATE POST | | |
|---|---|---|
| FENCE HEIGHT | GATE WIDTHS | ROUND OD PIPE |
| 6'-0" AND LESS | UP THRU 6'-0" | 2.875" |
| | OVER 6'-0" THRU 12'-0" | 4.500" |
| | OVER 12'-0" THRU 18'-0" | 5.563" |
| | OVER 18'-0" TO 24'-0" MAX | 6.625" |

1 EXH16 — CHAIN LINK FENCE AND GATE
NTS

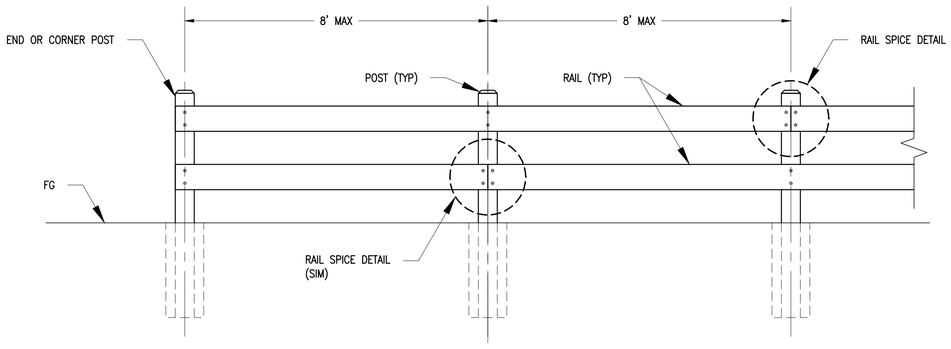
NOTES:
1. CHAIN LINK FABRIC SHALL BE ZINC COATED STEEL MANUFACTURED IN COMPLIANCE WITH ASTM STANDARD A 392 WITH A 2 INCH MESH OF 6 GAUGE WIRE WITH KNUCKLED SELVAGE.
2. TENSION WIRE SHALL BE 6 GAUGE.




FENCING

2 EXH16 — SECURITY FENCE
NTS

NOTES:
1. CHAIN LINK FABRIC SHALL BE ZINC COATED STEEL MANUFACTURED IN COMPLIANCE WITH ASTM STANDARD A 392 WITH A 2 INCH MESH OF 6 GAUGE WIRE WITH KNUCKLED SELVAGE.
2. TENSION WIRE SHALL BE 6 GAUGE.

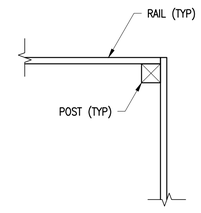



ELEVATION

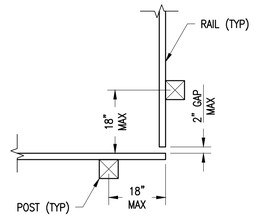
2 EXH16 — TWO-RAIL WOOD FENCE
NTS

SOURCE: EAST BAY REGIONAL PARK DISTRICT – STANDARD PLANS 203.

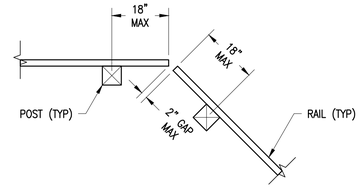
NOTES:
1. POSTS SHALL BE 6X6 PRESSURE TREATED ROUGH DOUGLAS FIR #2 OR BETTER FREE OF HEART CENTER. PRESSURE TREATED SHALL BE AWPA CA-B 0.21 PCF OR ACQ 0.40 PCF MINIMUM.
2. SET POSTS PLUMB AND BACKFILL WITH NATIVE MATERIAL. REMOVE ALL ROCKS AND CLODS GREATER THAN 1.5" THEN COMPACT IN 6" LIFTS.
3. TWO-RAIL FENCE RAILS SHALL BE 2X8 NON-PRESSURE TREATED, S4S DOUGLAS FIR, #2 OR BETTER.
4. INSTALL FENCE RAILS FACING TRAIL, UNLESS NOTED OTHERWISE.
5. CARRIAGE BOLTS SHALL BE 3/8" DIA HOT-DIPPED GALVANIZED CARRIAGE BOLTS WITH NUTS AND FLAT WASHERS. COUNTERSINK NUTS AND WASHERS AT BACK OF POSTS WITH 1.125" DIA X 1" MAX DEEP HOLES. PROJECTING BOLTS ENDS SHALL BE CUT FLUSH WITH POST AFTER TIGHTENING.
6. STRUCTURAL SCREWS SHALL BE SELF-DRILLING, RUGGED STRUCTURAL SCREWS "RSS", WITH "CLIMATEK" COATING, AS MANUFACTURED BY GRK CANADA LTD, OR EQUAL. USE 3/8" X 7-1/4" FOR ONE-RAIL FENCE AND 5/16 X 4" FOR TWO-RAIL FENCE. SCREW HEADS SHALL BE INSTALLED FLUSH OR SLIGHTLY COUNTER-SUNK PER MFG.
7. INSTALL CARRIAGE BOLTS OR STRUCTURAL SCREWS CENTERED ON AND PERPENDICULAR TO MEMBERS WITH AN EVEN EQUIDISTANT PATTERN.
8. EASE EXPOSED CORNERS OF POSTS AND RAILS AT THE END OF ALL FENCES, INCLUDING BOTH SIDES OF EACH FENCE OPENING.
9. STAIN RAILS AND POSTS "EBRPD BROWN STAIN" PER EBRPD STD PLAN 003 PAINT SPECIFICATIONS.



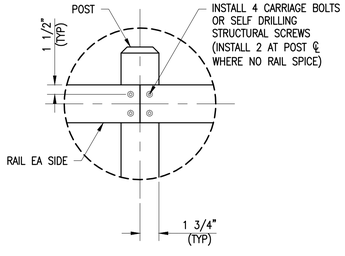

PLAN AT 90° CORNER



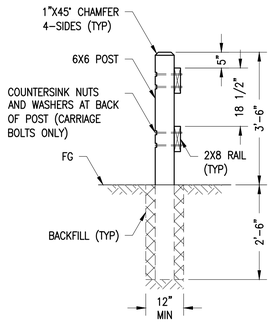

ALTERNATE PLAN AT 90° CORNER




PLAN AT OBTUSE OR ACUTE CORNER




RAIL SPICE DETAIL




SECTION

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DATE: AUG 01, 2016

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(510) 215-3620 * Fax (510) 215-2898

SAN FRANCISCO BAY TRAIL AT POINT MOLATE

OWNER

East Bay Regional Park District

EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS CT,
OAKLAND, CA 94605

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

PROJECT NO: 567.04.55
DESIGNED BY: J.B.
DRAWN BY: A.P.
CHECKED BY: DATE:
DATE: 08/10/2016

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SHEET TITLE
FENCING DETAILS

DRAWING
EXH16

SHEET 16 OF 16

File: P:\active projects\east bay regional park dist - 0567\567.04.55 - bay trail segment a & b\CAD\Exhibits\10. lead and arsenic exhibit\EXH15 Fencing Details.dwg | Layout: EXH16 | Printed Aug 11, 2016 @ 8:58am | ID:AP-2D.0s (LMS Tech)

# ATTACHMENT B

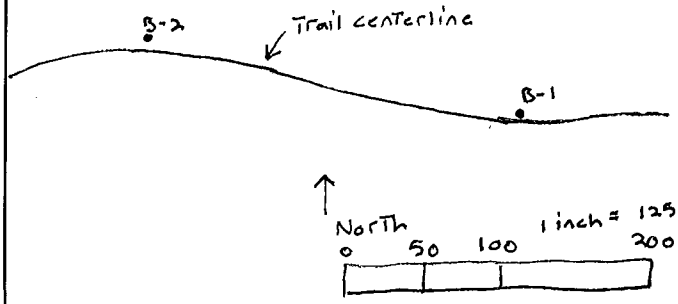
# BORING LOGS

ANCE 8795 Folsom Blvd, Ste 250 Sacramento, CA 95826
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-1 |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Solid Flight auger | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal Mod. / SPT | |
| HAMMER WT.: 140 lbs | DROP: |
| STARTED, TIME: 0931 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1005 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18" | 15" | | | | | | 0 | | |
| | | 17 | | | | | | | | | | |
| | | 17 | | | | | | | | 1 | | |
| | | 7 | 18" | 15" | | | | | | | | |
| | | 5 | | | | | | | | 2 | | |
| | | 4 | | | | | | | | | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Asphalt (2.5-inches)

Silty sand (SM) - dark grayish brown (10YR 4/2); 60% Fine to medium sand; 25% non-plastic Fines; 5% Fine rounded gravel; dense to loose; moist.

B-1-0.5 was collected at 0956 hours.

B-1-1.5 was collected at 1000 hours.

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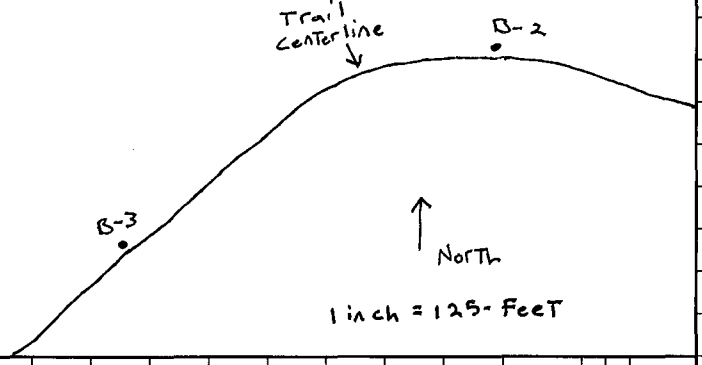
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-2 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet (24-inches) |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified, SPT | |
| HAMMER WT.: 140 lbs | DROP: |
| STARTED, TIME: 1012 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1041 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 42<br>23 | 19" | 12" | | | | | | 1 | | | |
| | | 12<br>14 | 18 | 12" | | | | | | 2 | | | |
| | | 8<br>8 | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt - 2-inches Thick

Silty Sand (SM) - brown (7.5YR4/2); 70% Fine To medium sand; 25% non-plastic Fines; 5% Fine rounded gravel; moist.

B-2-0.5 was collected at 1036 hours.

B-2-1.5 was collected at 1041 hours.

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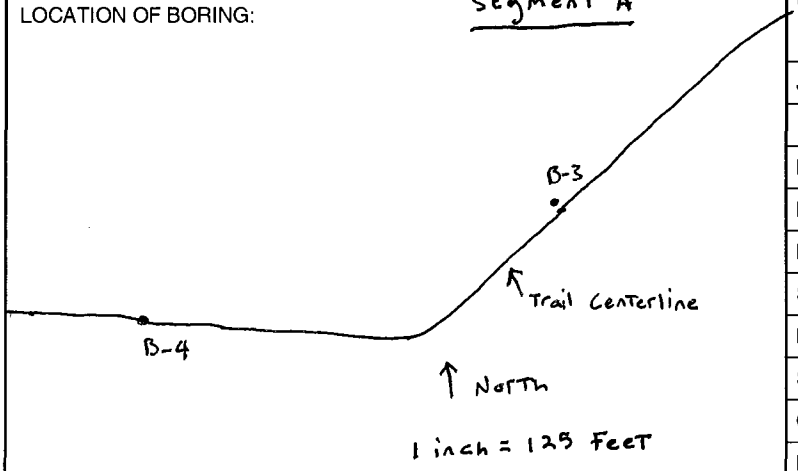
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-3 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris, Veni | |
| SAMPLING METHODS: Cal Modified | |
| HAMMER WT.: 140 lbs | DROP: |
| STARTED, TIME: 1100 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1115 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 29 | 18" | 16" | | | | | | 1 | | | |
| | | 35 | | | | | | | | | | | |
| | | 35 | | | | | | | | 2 | | | |
| | | 50 For 6" | | 5" | | | | | | | | | |
| | | 6" | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Sand with Gravel (SM) - brown (7.5 YR 4/2); 60% Fine Sand; 20% non-plastic fines; 20% Fine rounded gravel;

B-3-0.5 was collected at 1104 hours.

B-3-1.5 was collected at 1112 hours

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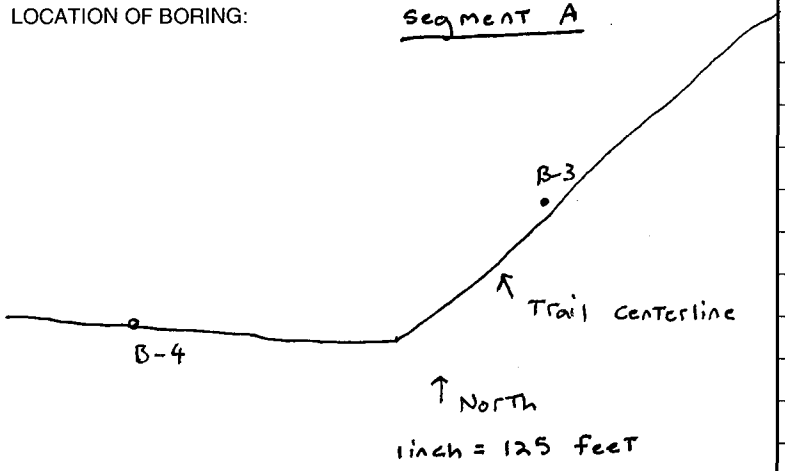
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-4 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal. Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1130 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1200 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 15<br>24 | 18" | 16" | | | | | | 1 | | | |
| | | 19<br>8 | 18" | 16" | | | | | | 2 | | | |
| | | 7<br>6 | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

silty sand with gravel (sm) - brown (7.5YR4/2); 60% fine sand; 20% non-plastic fines; 20% fine rounded gravel; dense; moist.

B-4-0.5 was collected at 1133 hours.

B-4-1.5 was collected at 1138 hours.

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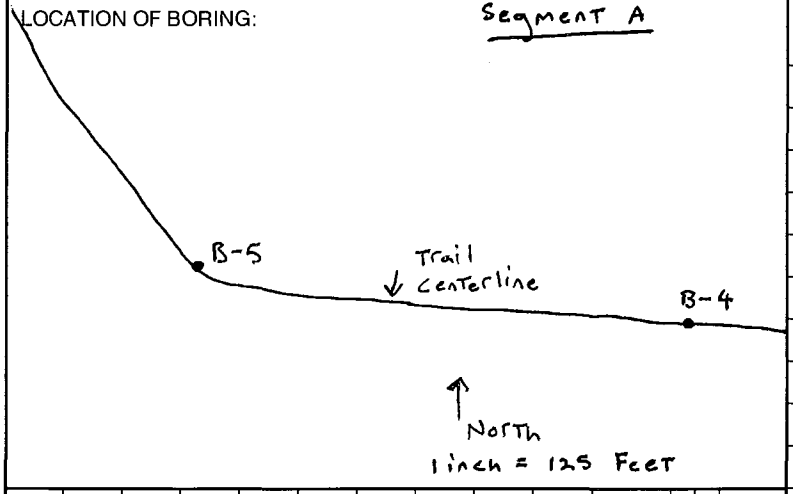
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-5 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | |
| DRILL RIG TYPE: Truck mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal Modified (0.5) and drill cuttings (1.5') | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1200 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1240 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4<br>6 | 18" | 18" | | | | | | 1 | | | |
| | | 10<br>25 | 18" | 12" | | | | | | 2 | | | sand-stone |
| | | 13<br>15 | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

SILT (ML) - dark brown (7.5YR 3/2); 90%, non-plastic to low plastic fines; 10%, fine sand; trace fine rounded gravel; ~~wet~~ stiff; ~~wet~~ wet.

Roots observed throughout.

~~Bedrock~~ Bedrock was encountered at about one foot bgs

~~Bedrock (Sandstone)~~ - very pale brown (10YR 7/3); predominantly fine grained sand; strongly cemented; dry.

B-5-0.5 was collected at 1220 hours.

B-5-1.5 was collected at 1230 hours.

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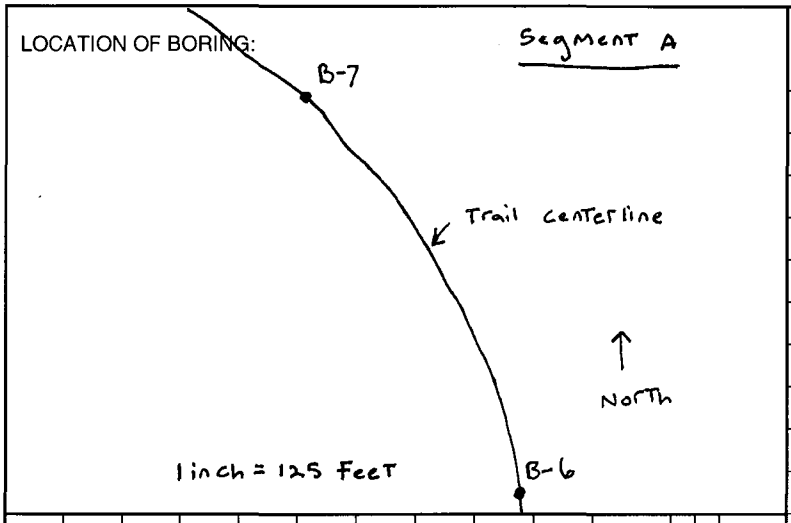
# FIELD LOG OF BORING

Sheet 1 of 1




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-6 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: ~~1~~ 10-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley / EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Sample was collected from drill cuttings | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1240 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1300 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 50 for 2" | 2" | 2" | | | | | | 1 | | | Bed-rock | Asphalt - 2 inches<br>Poorly Graded Sand (SP) - very pale brown (10YR7/3), predominantly fine sand; very dense; dry.<br>Bedrock (chert) was encountered at about 4-inches below the ground surface.<br>B-6-0.4 was collected at 1254 hours. |
| | | | | | | | | | | 2 | | | | |
| | | | | | | | | | | 3 | | | | |
| | | | | | | | | | | 4 | | | | |
| | | | | | | | | | | 5 | | | | |
| | | | | | | | | | | 6 | | | | |
| | | | | | | | | | | 7 | | | | |
| | | | | | | | | | | 8 | | | | |
| | | | | | | | | | | 9 | | | | |
| | | | | | | | | | | 10 | | | | |

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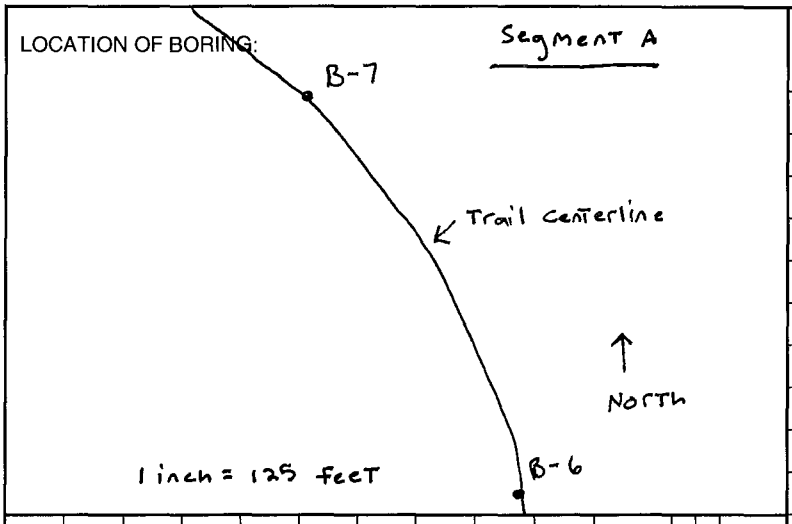
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-7 |
| | TOTAL DEPTH: 12-inches |
| JOB NO.: 567.04,55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Sample was collected from drill cuttings. | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1300 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1320 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | Sand-stone |

Asphalt = 3 inches

Poorly Graded Sand (SP) - very pale brown (10YR7/3); predominantly fine sand; very dense; dry.

Bedrock (sandstone) was encountered at a depth of 4-inches below the ground surface.

B-7-0.4 was collected at 1311 hours.

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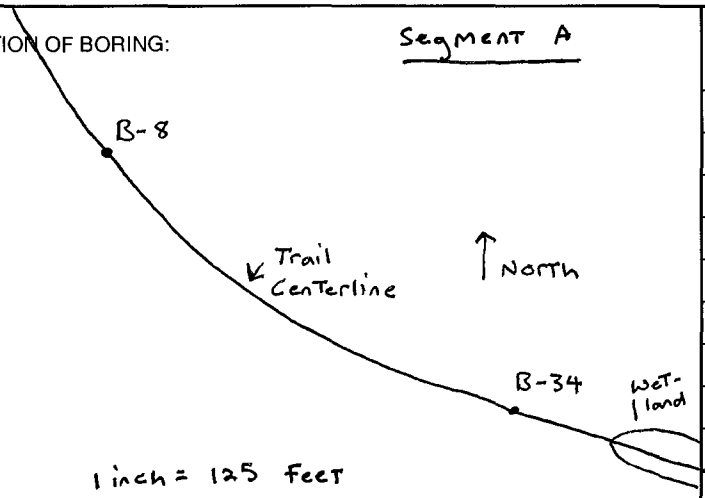
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-8 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Sample was collected from drill cuttings. | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1355 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1430 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | Bedrock |
| | | | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Asphalt = 2.5"

Bedrock was encountered directly below the asphalt. The bedrock is composed of silty sand (SM) - brown (7.5YR4/2); 70%. Fine sand; 30%. non-plastic fines; moist.

B-8 - 0.2 was collected at 1404 hours.

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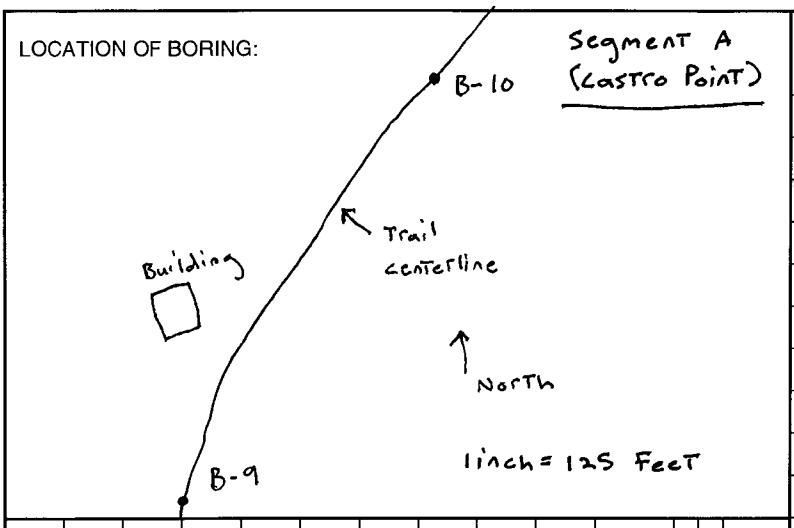
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-9 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: B. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 0829 Hours | DATE: 3/10/16 |
| COMPLETED, TIME: 0907 Hours | DATE: 3/10/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 18" | 12" | | | | | | 1 | | | Sand-stone |
| | | 16 | | | | | | | | | | | |
| | | 12 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt - 2"

3" Poorly Graded Sand (SP) - very dark gray (10YR3/1), predominantly medium sand, trace amounts of coarse sand, medium dense, moist.

Sandstone was encountered at approximately five inches bgs.

B-9-0.2 was collected at 0903 hours.

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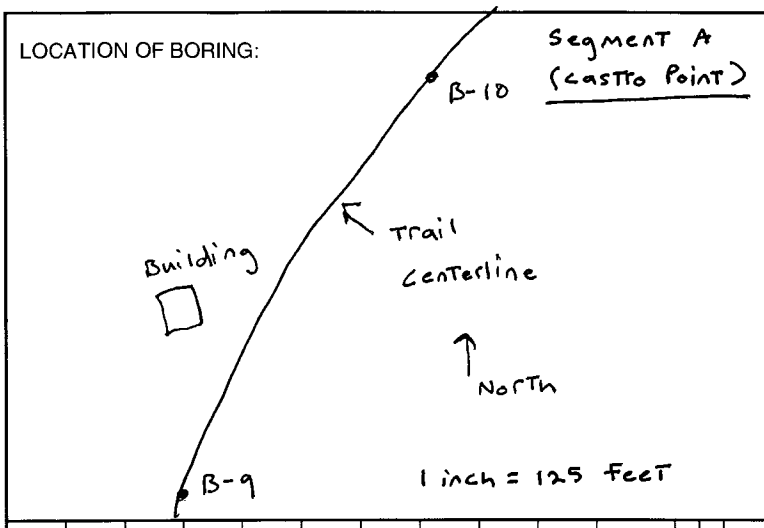
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-10 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 0907 hours | DATE: 3/10/16 |
| COMPLETED, TIME: 0930 hours | DATE: 3/10/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6 | 18" | 9" | | | | | | 1 | | |
| | | 6<br>12 | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

3" Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines.

Lean clay with sand (CL) - brown (7.5YR3/3); 85% low plastic fines; 15% fine sand; very stiff; moist.

B-10-0.5 was collected at 0922 hours.

B-10-1.5 was collected at 0927 hours.

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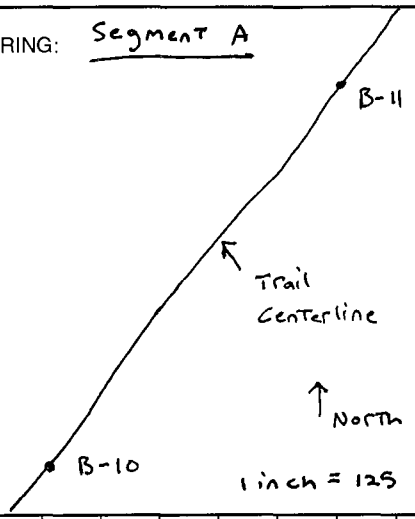
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-11 |
| JOB NO.: 567.04.53 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 0930 hours | DATE: 3/10/16 |
| COMPLETED, TIME: 1000 hours | DATE: 3/10/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: DATE: BY: | |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 9 | 18" | 9" | | | | | | 1 | | | |
| | | 16 | | | | | | | | | | | |
| | | 11 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

18" Poorly Graded Gravel (GP) - very dark gray (10YR3/1); predominantly fine rounded gravel up to two inches in length; trace amounts of non-plastic fines and fine sand; medium dense; wet.

6" Lean clay with sand (CL) - brown (7.5YR3); 85%. low plastic fines; 15%. Fine sand; very stiff; moist.

B-11-0.5 was collected at 0949 hours.

B-11-1.5 was collected at 0949 hours.

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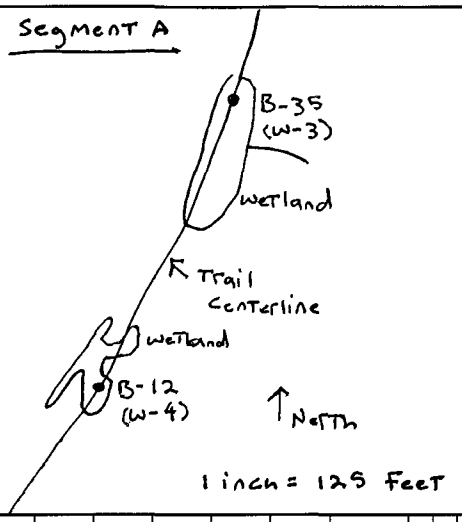
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-12 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1020 hours | DATE: 3/10/16 |
| COMPLETED, TIME: 1100 hours | DATE: 3/10/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: DATE: BY: | |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: Two holes were ~~drilled~~ advanced to 24-inches bgs. No recovery. Gravel extends from ground surface to at least ~~one foot~~ bgs. The gravel ranges from fine to coarse (up to 3-inches) in length. | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10 | 18" | 0 | | | | | | 1 | | | No Recovery |
| | | 18 | | | | | | | | | | | |
| | | 14 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

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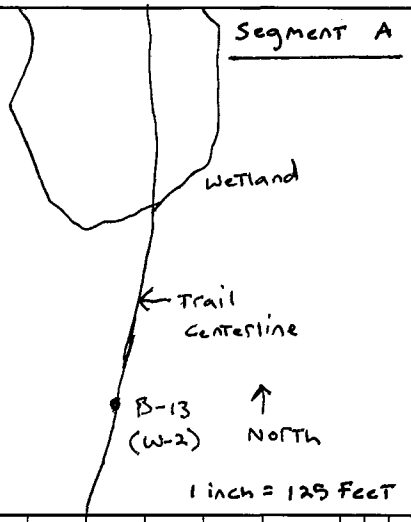
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-13 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech services, LLC | EDITED BY: |
| DRILL RIG TYPE: Superman | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1300 hours | DATE: 3/10/16 |
| COMPLETED, TIME: 1410 hours | DATE: 3/10/16 |
| BORING DEPTH (ft.) Two | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: DATE: BY: | |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 9 | 18" | 14" | | | | | | 1 | | | |
| | | 12 | | | | | | | | | | | |
| | | 20 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

8" Poorly Graded Gravel - very dark gray (10YR 3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines and fine sand; medium dense; wet.

Silty Sand (SM) - brownish yellow (10YR 5/6); 50% fine sand; 30% non-plastic fines; medium dense; moist.

Sandstone - 2-Feet

B-13-0.5 was collected at 1356 hours.

B-13-1.5 was collected at 1400 hours

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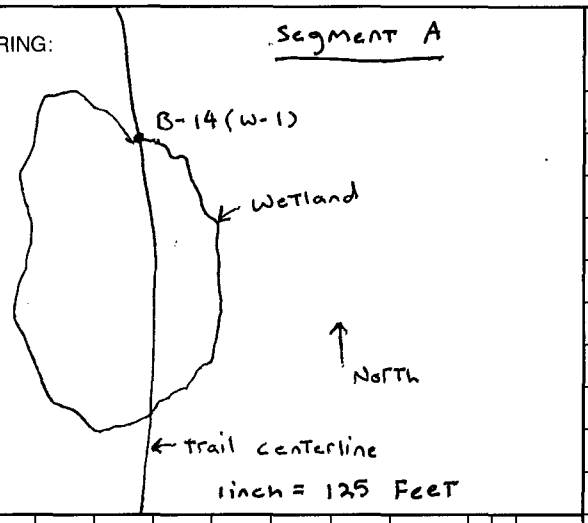
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-14 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal Mod., SPT | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1500 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1530 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6<br>8 | 18" | 18" | | | | | | 0 | | | |
| | | 7<br>3 | 18" | 18" | | | | | | 1 | | | |
| | | 5<br>6 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

0-1 Silty sand with Gravel (SM) - brown (10YR 5/3), 50% Fine sand; 30% non-plastic fines; 20% Fine rounded gravel; medium dense; wet.

1-2 Lean clay (CL) - brown (10YR 5/3); predominantly low to medium plasticity fines; stiff; wet.

Organic material such as roots were found throughout the sample intervals.

B-14-0.5 was collected at 1510 hours.

B-14-1.5 was collected at 1515 hours.

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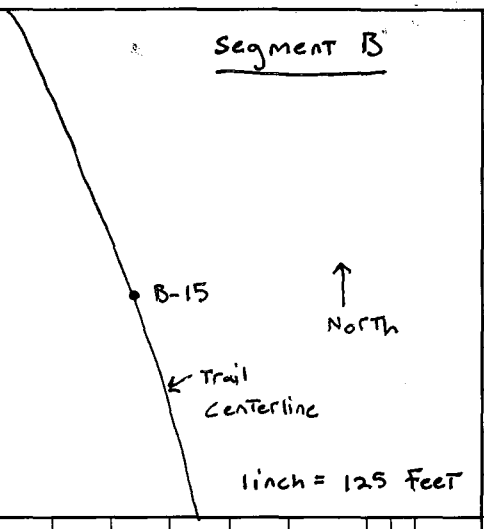
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-15 |
| | TOTAL DEPTH: 24 inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1330 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1615 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 22 | 18" | 18" | | | | | | 1 | | | |
| | | 12 11 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel with Sand (GM) - very dark grayish brown (10YR 3/2) - 50% fine rounded gravel; 30% non-plastic fines; 20% fine sand; moist.

Fat clay (CH) - very dark brown (10YR 2/2); predominantly high plastic fines; very stiff; moist.

B-15-0.5 was collected at 1547 hours.

B-15-1.5 was collected at 1552 hours.

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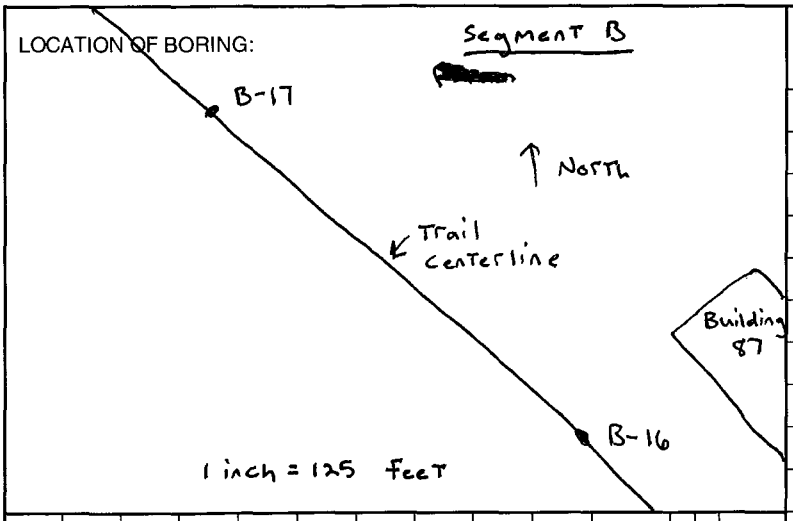
# FIELD LOG OF BORING

Sheet 1 of 1




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-16 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1630 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1700 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 4<br>9<br>9 | 18" | 18" | | | 1 | | | |
| | | 9<br>7 | | | | | 2 | | | |
| | | | | | | | 3 | | | |
| | | | | | | | 4 | | | |
| | | | | | | | 5 | | | |
| | | | | | | | 6 | | | |
| | | | | | | | 7 | | | |
| | | | | | | | 8 | | | |
| | | | | | | | 9 | | | |
| | | | | | | | 10 | | | |

Silty Gravel with Sand (GM) - very dark grayish brown (10YR 3/2); 30% non-plastic fines; 20% Fine Sand; 50% fine rounded gravel; wet.

Fat Clay (CH) - very dark brown (10YR 2/2); predominantly high plastic fines; very stiff; moist.

B-16-03 was collected at 1636 hours.

D-16-1.5 was collected at 1640 hours.

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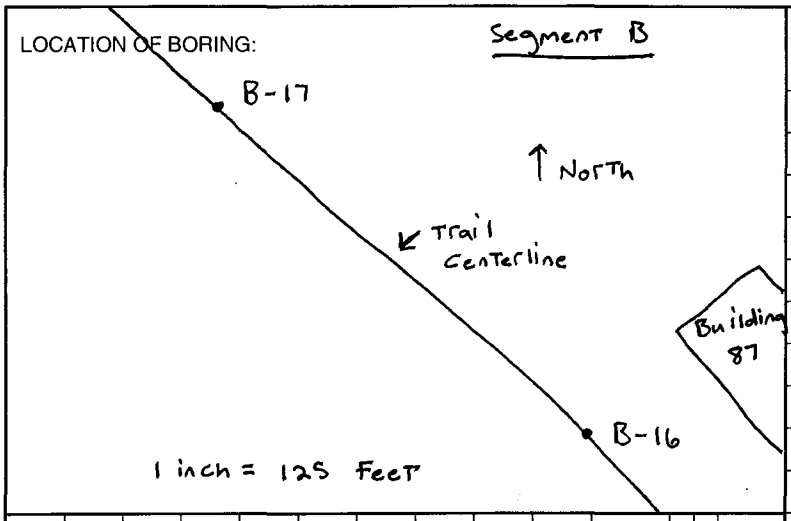
# FIELD LOG OF BORING

Sheet 1 of 1




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-17 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal. Modified | |
| HAMMER WT.: 140 lbs | DROP: |
| STARTED, TIME: 0830 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 0859 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11 | 18" | 14" | | | | | | 1 | | | |
| | | 22 20 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt - 3"

Baserock - 2" (Silty Gravel (GM) - very dark grayish brown (10YR3/2); fine rounded gravel; trace non-plastic fines and fine sand; moist.

Silty Clay with Gravel (CL-ML) - brown (7.5YR5/3); 50% low plastic fines; 30% non-plastic fines; 20% fine rounded gravel; hard; moist.

B-17-0.5 was collected at 0843 hours.

B-17-1.5 was collected at 0846 hours.

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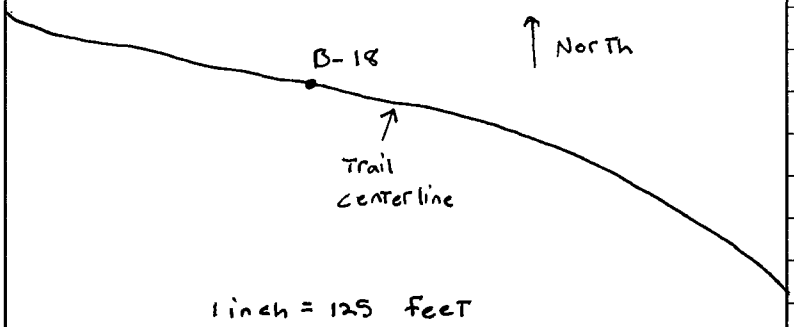
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-18 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 0910 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 0930 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 13 | 18" | 17" | | | | | | 1 | | |
| | | 19 | | | | | | | | | | |
| | | 42 | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Silty clay with Gravel (cl-ML) - brown (7.5YR5/3), 40%. low plastic fines; 30% non-plastic fines; 30%. Fine rounded gravel; hard; wet.

B-18-0.5 was collected at 0924 hours.

B-18-1.5 was collected at 0929 hours.

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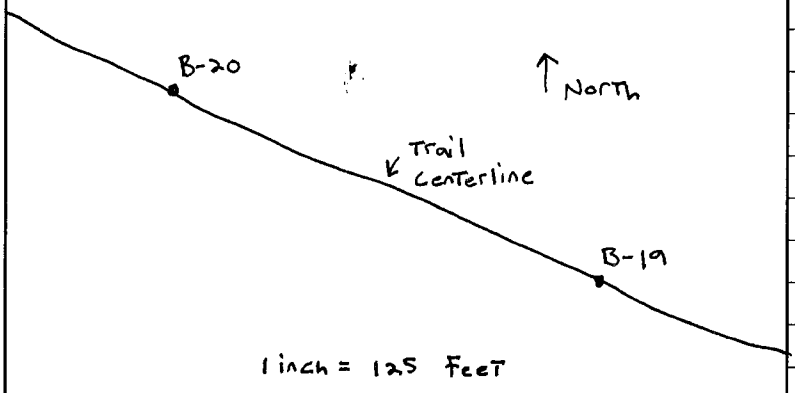
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-19 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Cal. Mod. | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 0934 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1000 hours | DATE: 3/9/16 |

| | | | |
|---|---|---|---|
| BORING DEPTH (ft.) | | | |
| CASING DEPTH (ft.) | | | |
| WATER DEPTH (ft.) | | | |
| TIME: | | | |
| DATE: | | | |

BACKFILLED, TIME: DATE: BY:

SURFACE ELEV.: DATUM:

CONDITIONS:

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | [redacted] 10 | [redacted] 18" | [redacted] 15" | | | | | | 1 | | | |
| | | [redacted] 11 30 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (GM) - very dark grayish brown (10YR 3/2); 80% Fine rounded gravel; 20% non-plastic to low plastic fines; hard; wet. 5"

Silty clay with Gravel (CL-ML) - brown (7.5YR 5/3); 50% low plastic fines; 30% non-plastic fines; 20% Fine rounded gravel; hard; moist.

B-19-0.5 was collected at 0956 hours.

B-19-1.5 was collected at 0959 hours.

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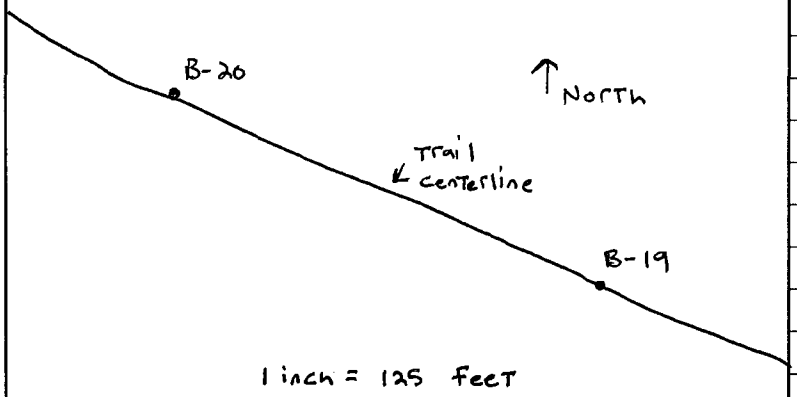
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-20 |
| | TOTAL DEPTH: 24- inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1000 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1030 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | [illegible] | | | | | | | | 1 | | | |
| | | [illegible] 16 | | | | | | | | | | | |
| | | 36 [illegible] 20 | | | | | | | | 2 | | | sand-stone |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt-3"
Sandy clay with Gravel (CL/ML) - brown (7.5YR 3/3), 50%, low plastic fines, 30% non-plastic fines, 20% fine rounded gravel, hard, moist.
Sandstone was encountered at one foot bgs.

B-20-0.3 was collected at 1026 hours.

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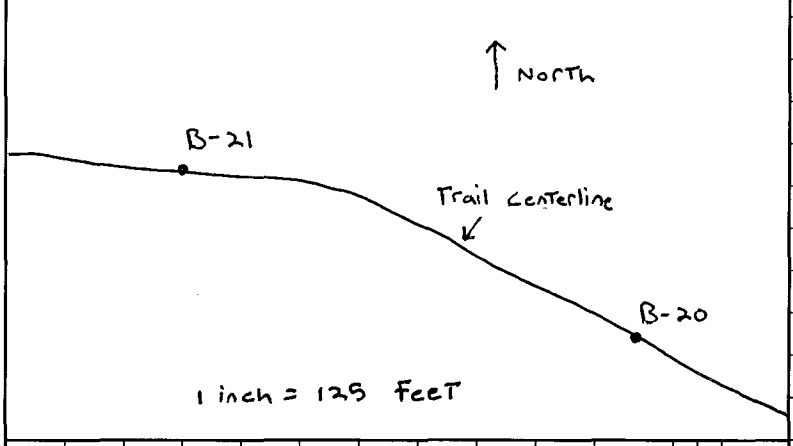
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-21 |
| JOB NO.: 867.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: B. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1036 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1100 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11 | 13" | 16" | | | | | | 1 | | | |
| | | 26 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (GM) – very dark grayish brown (10YR3/2); 80%. fine rounded gravel; 20%. non-plastic Fines; hard; wet. Plant roots observed from ground surface to about six inches bgs.

B-21-0.5 was collected at 1045 hours.

B-21-1.5 was collected at 1048 hours.

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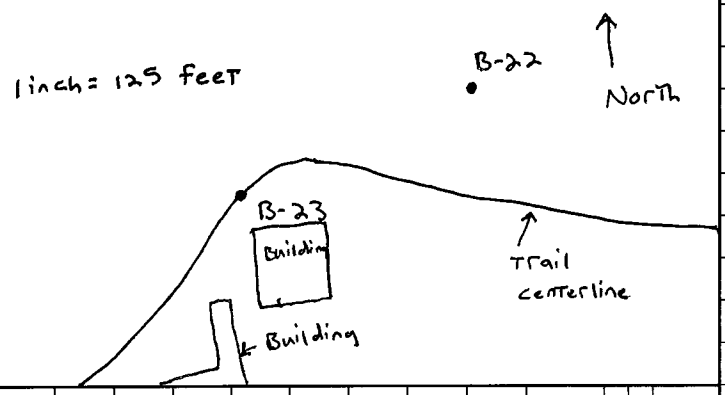
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B (Drum lot #1)




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-22 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1101 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1120 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 34 | 24" | 15" | | | | | | |
| | | 31 | 18 | | | | 1 | | | sand-stone |
| | | 37 | | | | | 2 | | | |
| | | | | | | | 3 | | | |
| | | | | | | | 4 | | | |
| | | | | | | | 5 | | | |
| | | | | | | | 6 | | | |
| | | | | | | | 7 | | | |
| | | | | | | | 8 | | | |
| | | | | | | | 9 | | | |
| | | | | | | | 10 | | | |

Silty Gravel (GM) - very dark grayish brown (10YR 3/2); 80% fine rounded gravel; 20% non-plastic fines; hard; wet.

Sandstone was encountered at a depth of approximately 10-inches bgs.

B-22-0.4 was collected at 1109 hours.

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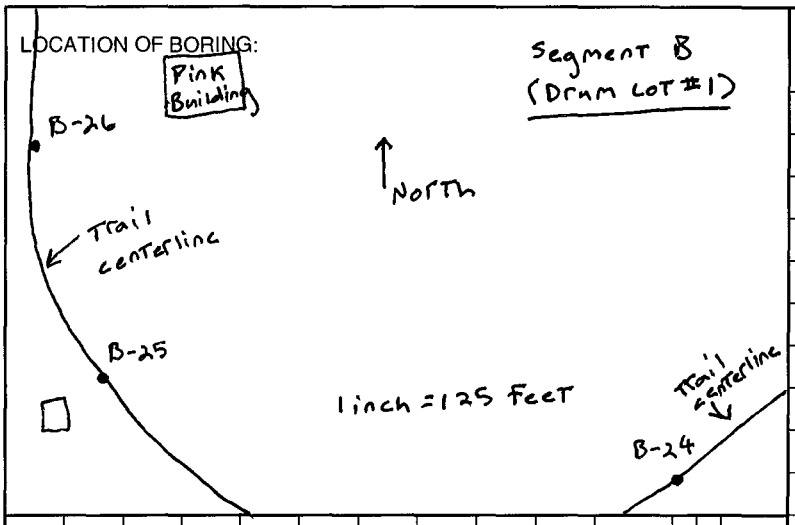
# FIELD LOG OF BORING

Sheet 1 of 1




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-24 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1411 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1440 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 40 | | | | | | | | | | | |
| | | ~~40~~ 40 | 18" | 14" | | | | | | | | | Sand-stone |
| | | ~~50~~ 50 | | | | | | | | 1 | | | |
| | | 32 | | | | | | | | | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt - 3"

2" Poorly Graded Sand with Gravel (SP) - very dark gray (10YR3/1); 70% fine sand; 30% fine gravel; very dense; moist.

Sandstone was encountered at a depth of approximately 5-inches bgs.

B-24-0.3 was collected at 1429 hours.

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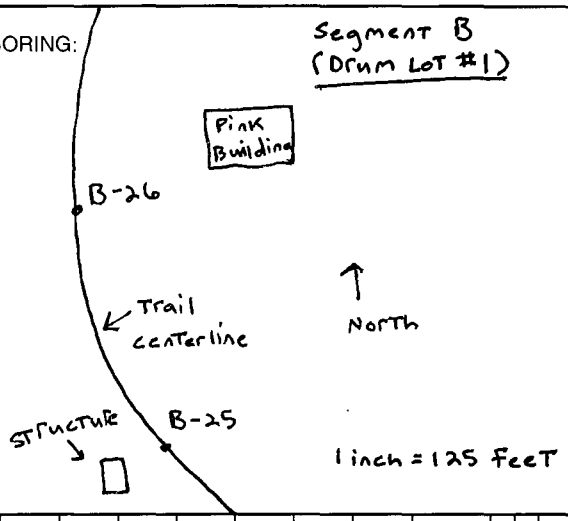
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-25 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1335 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1400 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | [illegible] | [illegible] | [illegible] | | | | | | | | |
| | | 4 12 25 | 18" | 12" | | | | | | 1 | | |
| | | 25 [illegible] 19 | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

3"

Poorly Graded Gravel with Sand (GP) - very dark gray (10YR3/1); 55%. fine rounded gravel; 45%. Fine to medium sand.

Silty Gravel with Sand (GM) - brown (7.5YR5/3); 50%. Fine rounded gravel; 30%. non-plastic fines; 20%. Fine sand; dense; wet.

B-25-0.5 was collected at 1354 hours.

B-25-1.5 was collected at 1358 hours.

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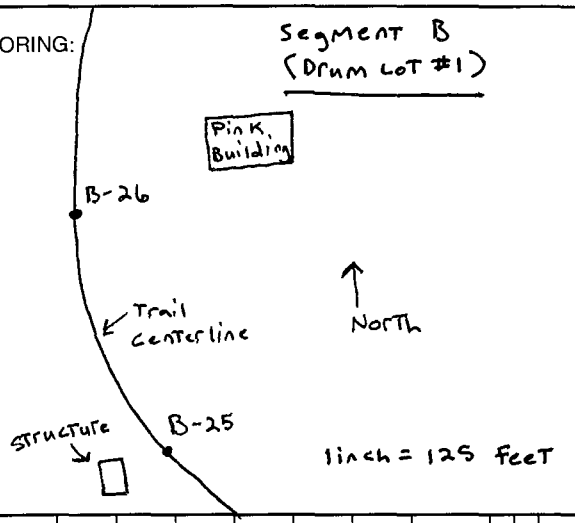
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-26 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1313 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1340 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|
| | | 30 | | | | | | | |
| | | 50 for 0" | 12" | 7" | | | 1 | | Sand-stone |
| | | | | | | | 2 | | |
| | | | | | | | 3 | | |
| | | | | | | | 4 | | |
| | | | | | | | 5 | | |
| | | | | | | | 6 | | |
| | | | | | | | 7 | | |
| | | | | | | | 8 | | |
| | | | | | | | 9 | | |
| | | | | | | | 10 | | |

Silty Gravel (GM) - ~~very dk~~ brown (7.5YR5/3); 70% Fine rounded gravel; 20% ~~fine~~ non-plastic Fines; 10% fine sand; very dense; wet.

Sandstone was encountered at a depth of approximately 12-inches bgs.

B-26-0.5 was collected at 1329 hours.

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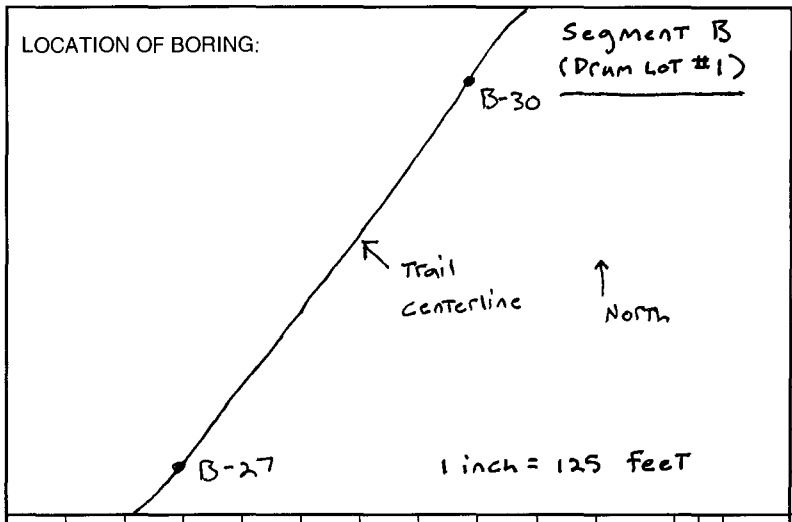
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-27 |
| JOB NO.: 567.04, 55 | TOTAL DEPTH: 24 - inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1242 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1310 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | | | | | | | | | | | |
| | | 16 15 | 18" | 18" | | | | | | 1 | | | |
| | | 13 14 | | | | | | | | 2 | | | |
| | | 14 | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel with Sand (GM) - brown (7.5YR5/3); 50% Fine rounded gravel; 30% non-plastic fines; 20% Fine sand; dense; wet.

B-27-0.5 was collected at 1255 hours.

B-27-1.5 was collected at 1258 hours.

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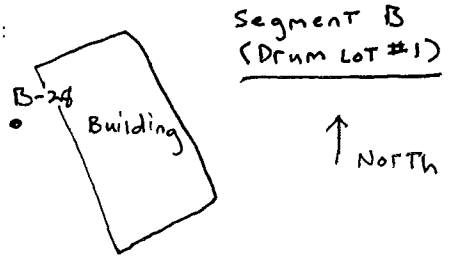
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-28 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567,04,55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | |
| DRILL RIG TYPE: Truck mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1130 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1150 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | 17" | 10" | | | | | | | | | 1&1/4 Sandstone |
| | | 23 | | | | | | | | 1 | | | |
| | | 50 for 5" | | | | | | | | | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (Fm) - very dark grayish brown (10YR 3/2); 80% fine rounded gravel; 20% non-plastic fines; hard; wet.

Sandstone was encountered at a depth of approximately 6 six inches bgs.

B-28-0.3 was collected at 1144 hours.

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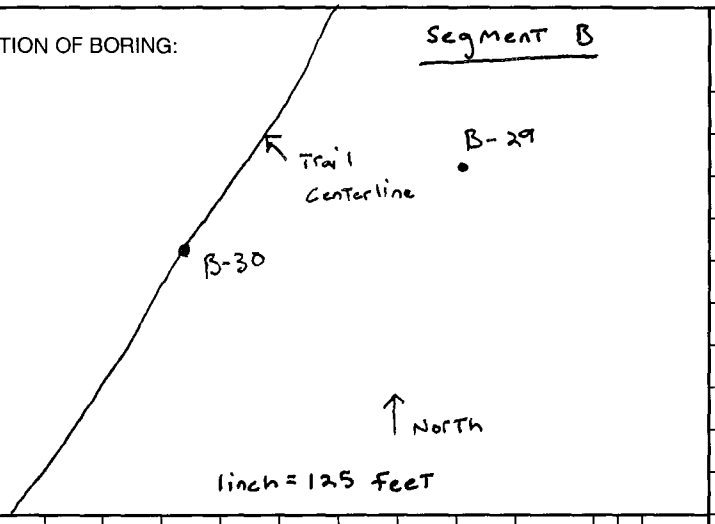
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-29 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04,55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: chris veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1150 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1215 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: DATE: BY: | |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 31<br>30 | 18" | 14" | | | | | | 0 | | | P/O |
| | | 39 | | | | | | | | 1 | | | sand-stone |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (GM) - very dark grayish brown (10YR3/[illegible]); 80%. fine rounded gravel; 20%. non-plastic to low plastic fines; hard, wet.

Sandstone was encountered at a depth of approximately six inches bgs.

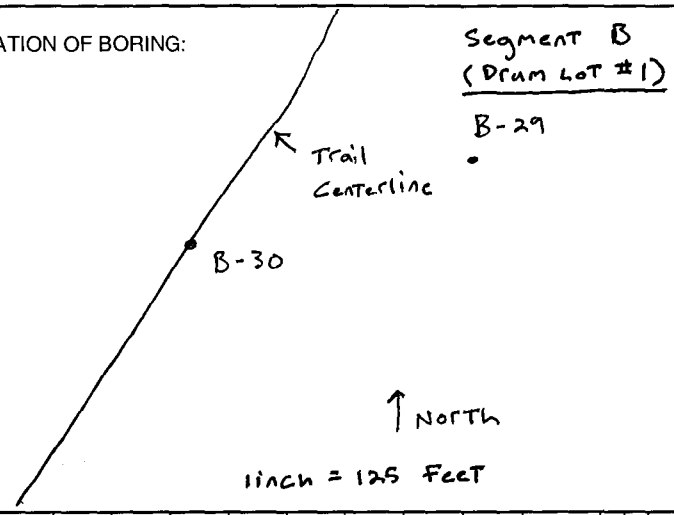
B-29-0 was collected at 1212 hours.

NCE 8795 Folsom Blvd, Ste 250 Sacramento, CA 95826
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-30 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1218 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1240 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5<br>6<br>7 | 18" | 18" | | | | | | 0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | | | |

Silty Gravel (FM) - brown (7.5YR5/3); 70% fine rounded gravel; 30% non-plastic to low plastic fines; medium dense; wet.

B-30-0.2 was collected at 1233 hours.

B-30-1.5 was collected at 1237 hours.

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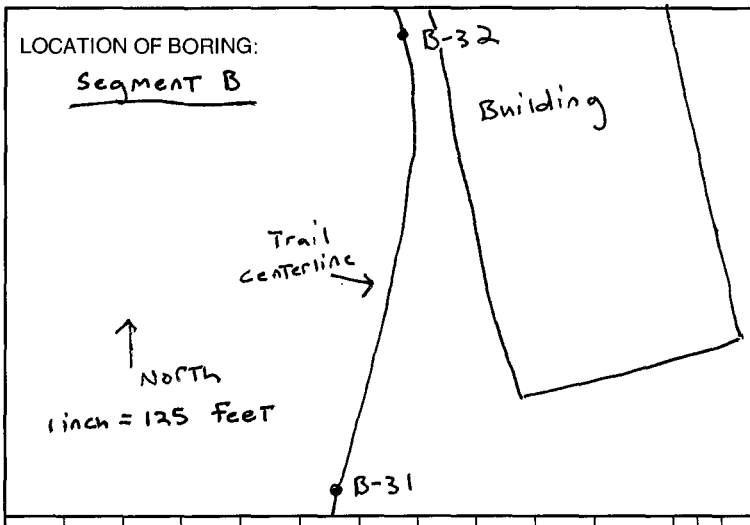
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-31 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1510 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1530 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 16 33 35 | 18" | 14" | | | | | | 0–2 | | | |

3"

Silty sand (SM) - very dark gray (10YR3/1); 30% non-plastic fines and organic matter; 70% fine sand; very dense; wet.

Silty Gravel with sand (GM) - brown (7.5YR5/3); 50% #-fine rounded gravel; 30% non-plastic fines; 20% fine sand; very dense; wet.

B-31-0.5 was collected at 1515 hours.

B-31-1.5 was collected at 1520 hours.

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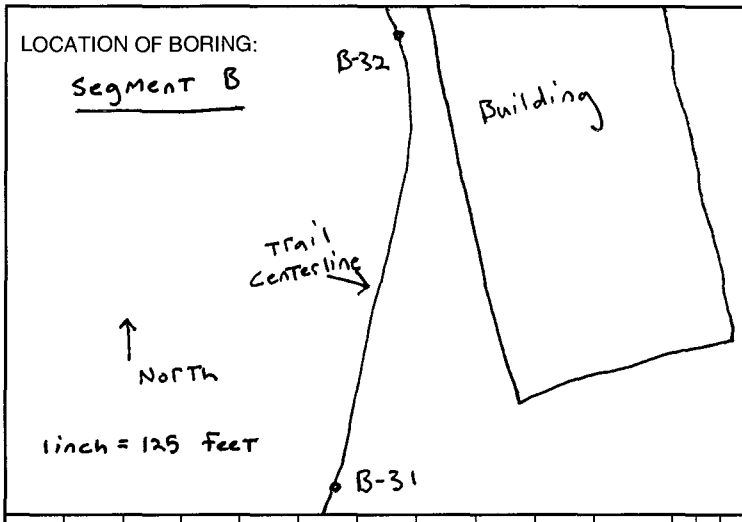
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-32 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1533 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1550 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12 | 18" | 5" | | | | | | 1 | | | |
| | | 10 | | | | | | | | | | | |
| | | 9 | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

2.5" ~~Asphalt~~ Poorly Graded Gravel with Sand (GP) - very dark gray (10YR3/1); 80% Fine subrounded gravel; 20% Fine to medium sand; medium dense; moist.

B-32 - 1.5 ~~0-18~~ was collected at 1540 hours.

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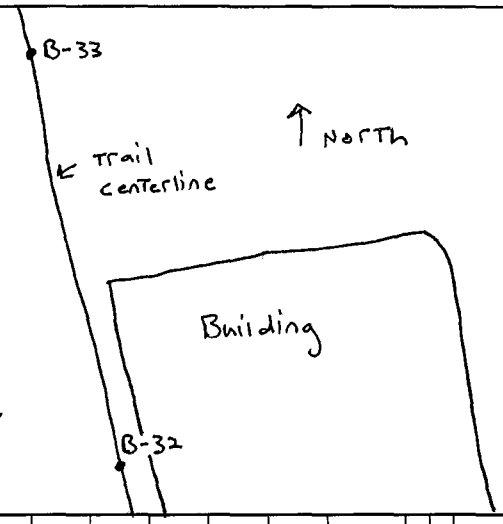
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: ● Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-33 |
| | TOTAL DEPTH: 24-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California FeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: Sample was collected from drill cuttings. | |
| HAMMER WT.: N/A | DROP: |
| STARTED, TIME: 1610 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1630 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | P |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Sandy SILT (ML) - brown (7.5YR5/3); ~80% non-plastic Fines; 20% Fine sand; moist. Asphalt Layer encountered at approximately one-Foot bgs.

B-33-0.2 was collected at 1623 hours.

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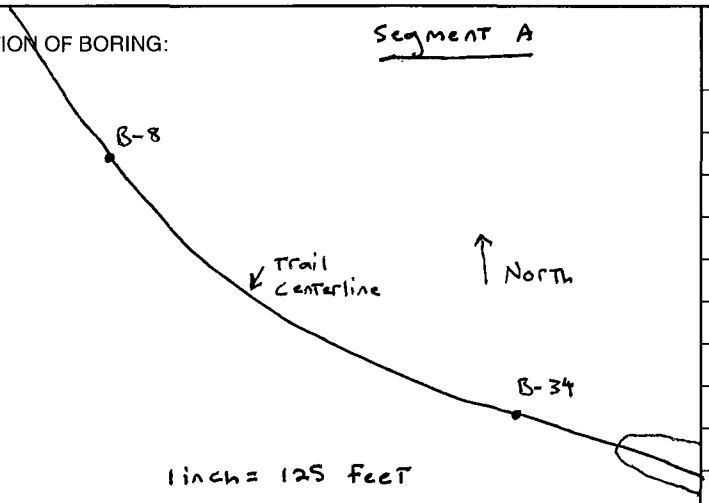
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-34 |
| | TOTAL DEPTH: 12 inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck mounted B-24 | |
| DRILLER'S NAME: chris veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1321 hours | DATE: 3/8/16 |
| COMPLETED, TIME: 1350 hours | DATE: 3/8/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 47<br>50for 3" | 9" | 9" | | | | | | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | | |

Asphalt = 2.5"

Silty Sand (SM) - brown (7.5YR4/2); 70%. Fine sand; 15% non-plastic fines; 5% fine rounded gravel; very dense; moist.

Bedrock was encountered at around 10- To 11-inches below the ground surface.

B-34-0.5 was collected at 1341 hours.

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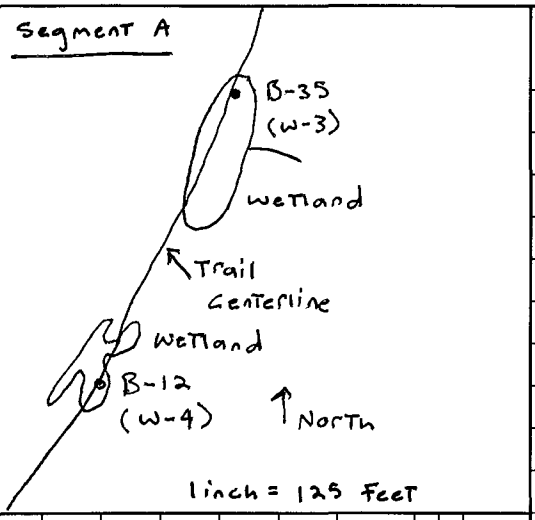
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment A




| | |
|---|---|
| PROJECT: * EBRPD SF Bay Trail | BORING NO.: B-35 |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | EDITED BY: |
| DRILL RIG TYPE: Superman | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1200 hours | DATE: 3/10/16 |
| COMPLETED, TIME: 1254 hours | DATE: 3/10/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 18 | 18" | 14" | | | 1 | | | |
| | | 14 | | | | | | | | |
| | | 36 | | | | | 2 | | | Sand-stone |
| | | | | | | | 3 | | | |
| | | | | | | | 4 | | | |
| | | | | | | | 5 | | | |
| | | | | | | | 6 | | | |
| | | | | | | | 7 | | | |
| | | | | | | | 8 | | | |
| | | | | | | | 9 | | | |
| | | | | | | | 10 | | | |

10" Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel up to two inches in length; Trace amounts of non-plastic fines and fine sand; medium dense, wet.

Clayey Silt with Sand (ML-CL) - grayish brown (10YR5/2); 45% non-plastic fines; 40% low plastic fines; hard; wet.

*Sandstone was encountered at approximately 16-inches bgs.

B-35-0.8 was collected at 1244 hours.

B-35-1.5 was collected at 1249 hours.

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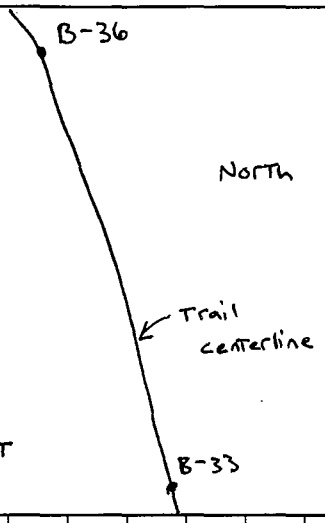
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING: Segment B




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail | BORING NO.: B-36 |
| JOB NO.: 569.09.55 | TOTAL DEPTH: 24-inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| | EDITED BY: |
| DRILLING CONTRACTOR: California GeoTech Services, LLC | |
| DRILL RIG TYPE: Truck Mounted B-24 | |
| DRILLER'S NAME: Chris Veni | |
| SAMPLING METHODS: California Modified | |
| HAMMER WT.: 140 pounds | DROP: |
| STARTED, TIME: 1645 hours | DATE: 3/9/16 |
| COMPLETED, TIME: 1700 hours | DATE: 3/9/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | | | | | | | | | | | |
| | | 4 | 18" | 18" | | | | | | 1 | | | |
| | | 6 | | | | | | | | | | | |
| | | 12 | | | | | | | | 2 | | | Sand-stone |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

3" silty Gravel (GM) - brown (7.5YR5/3); 70% Fine rounded gravel; 30%, non-plastic fines; wet.

12" clayey Gravel (GC) - same as above except clay instead of silt.

3" silty Gravel (GM) - yellowish brown (10YR 5/6); 40% non-plastic fines; 40%, fine rounded gravel; medium dense; moist.

Sandstone was encountered at approximately 18-inches bgs.

B-36-0.5 was collected at 1646 hours.

B-36-1.5 was collected at 1653 hours.

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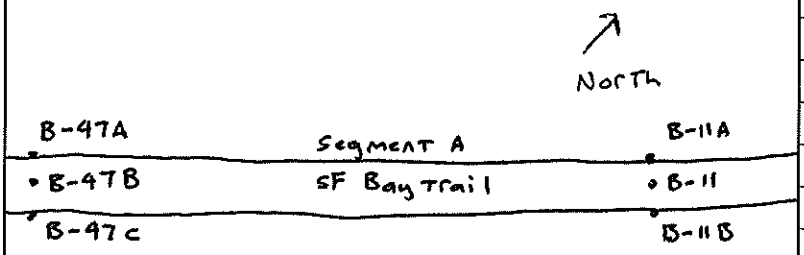
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 98+50
Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-11A |
| JOB NO.: 567.04, 55 | TOTAL DEPTH: 2- Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1415 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1420 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 24 | | | | | | 0 | | |
| | | | | | | | | | | 1 | | |
| | | | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

(2-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry, with sand

Lean Clay (CL) - brown (7.5YR3); 85% low plastic fines; 15% fine sand; very stiff; moist

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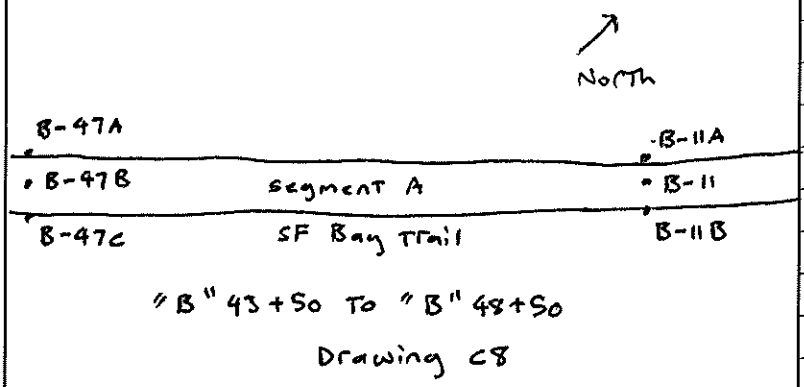
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-11B |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1420 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1424 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 19 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
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| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

(3-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Lean clay with Sand (CL) - brown (7.5YR5/3); 85% low plastic fines; 15% fine sand; very stiff; moist.

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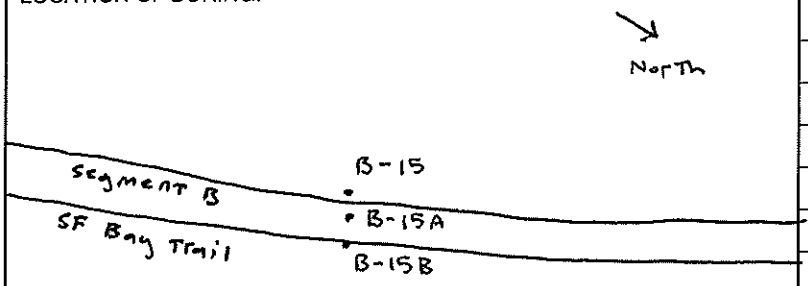
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 63+50 To "B" 68+50

Drawing c12

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-15A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1239 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1245 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 16 | | | | | | 0 | | | 90% |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
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| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

90% Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry.

Fat Clay (CH) - very dark brown (10YR2/2); predominantly high plastic fines; very stiff; moist.

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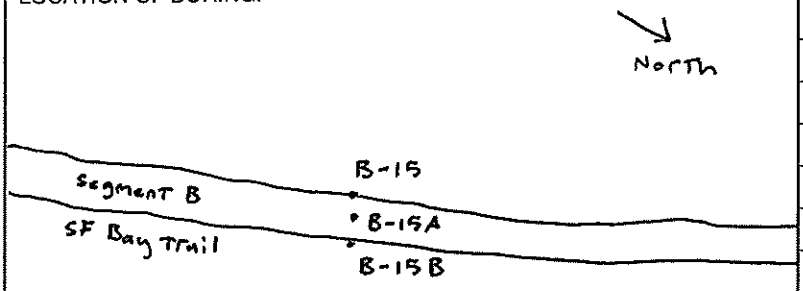
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 63+50 To "B" 68+50

Drawing C12

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-15B |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1230 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1239 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
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| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

0/0/ Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30%. non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry.

Fat clay (CH) - very dark brown (10YR2/2); predominantly high plastic fines; very stiff; moist.

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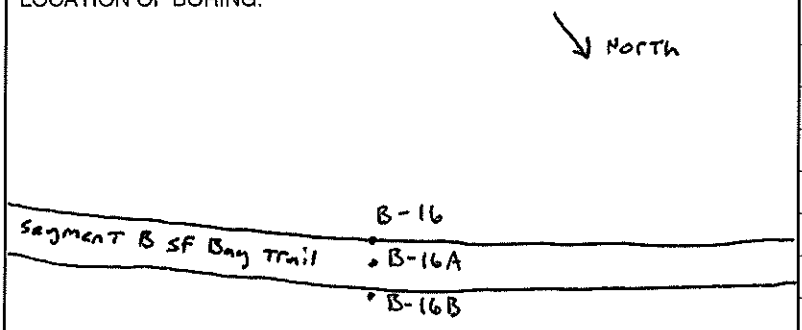
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 69+50 To "B" 73+50

Drawing C13

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-16A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R, Shaffer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1213 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1216 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 15 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
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| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

0-1 Silty Gravel with sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose dry.

1-2 Fat clay (CH) - very dark brown (10YR2/2); predominantly high plastic fines; very stiff; moist.

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# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:

North

B-16
Segment B SF Bay Trail • B-16A
• B-16B

"B" 69+50 To "B" 73+50
Drawing C13

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-16B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shaffer | LOGGED BY: B. Bardsley |
| | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1208 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1211 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 19 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
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| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel with Sand (GM) - very dark grayish brown (10YR 3/2), 30% non-plastic fines, 20% fine sand, 50% fine rounded gravel, loose, dry.

Fat Clay (CH) - very dark brown (10YR 2/2), predominantly high plastic fines, very stiff, moist.

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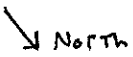
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




B-17

Segment B SF Bay Trail • B-17A

B-17B

"B" 68+50 To "B" 73+50

Drawing C13

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-17A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2- Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1200 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1205 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 16 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt (3-inches)
Baserock (2-inches)
silty clay with Gravel (CL-ML) - brown (7.5YR5/3); 90% non-plastic to low plastic fines; 20% fine rounded gravel; hard; moist.

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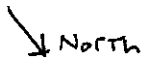
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




B-17

Segment B SF Bay Trail • B-17A

• B-17B

"B" 68+50 To "B" 73+50

Drawing C13

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-17B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1156 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1200 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 16 | | | | | | 0 | | | | Asphalt (3-inches) Baserock (2-inches) |
| | | | | | | | | | | 1 | | | | Silty clay with Gravel (CL-ML) - brown (7.5YR 5/3), 80% non-plastic to low plastic fines; 20% Fine rounded gravel; hard; moist. |
| | | | | | | | | | | 2 | | | | |
| | | | | | | | | | | 3 | | | | |
| | | | | | | | | | | 4 | | | | |
| | | | | | | | | | | 5 | | | | |
| | | | | | | | | | | 6 | | | | |
| | | | | | | | | | | 7 | | | | |
| | | | | | | | | | | 8 | | | | |
| | | | | | | | | | | 9 | | | | |
| | | | | | | | | | | 10 | | | | |

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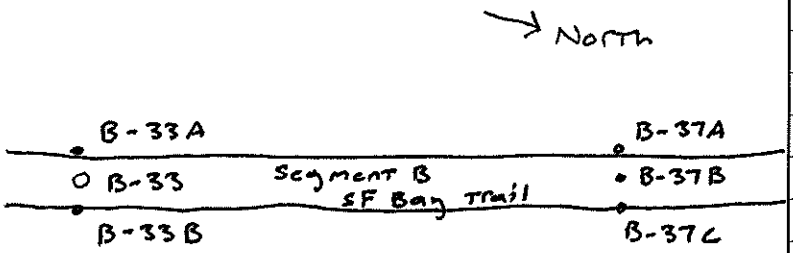
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 128+50 To "B" 133+50
Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-33A |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1031 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1040 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt (one inch)

Silt with sand (ML) - brown (7.5YR5/3); 80% non-plastic fines; 15% fine sand; 5% fine rounded gravel; soft to medium stiff; dry.

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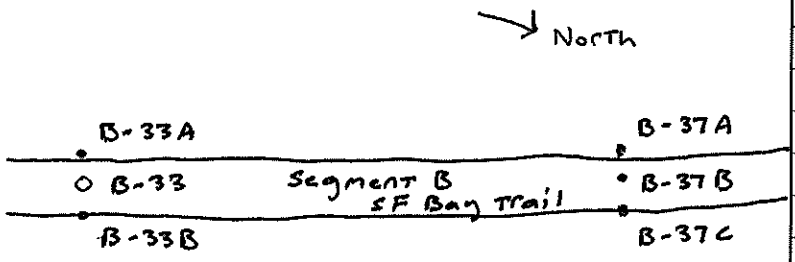
# FIELD LOG OF BORING

Sheet _____ of _____

LOCATION OF BORING:




"B" 128+50 to "B" 133+50

Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-33B |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1025 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1030 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 1 | | |
| | | | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Silt with Sand (ML) - brown (7.5YR 5/3); 85% non-plastic fines; 15% fine sand; soft to medium stiff; dry.

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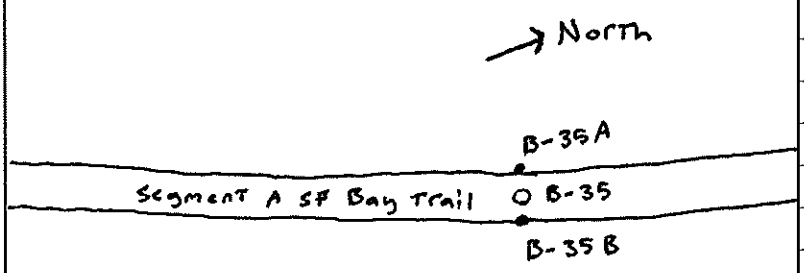
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 48+50 To "B" 53+50
Drawing C9

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-35A |
| | TOTAL DEPTH: 15-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Hand Auger | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0952 hours | DATE: 6/1/16 |
| COMPLETED, TIME: 1000 hours | DATE: 6/1/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | |
| | | | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Poorly Graded Gravel (GP) - very dark gray (10YR3/1); predominantly fine rounded gravel; Trace amounts of non-plastic fines; dry.

Lean clay (CL) - grayish brown (10YR5/2); predominantly low plastic fines; stiff; moist.

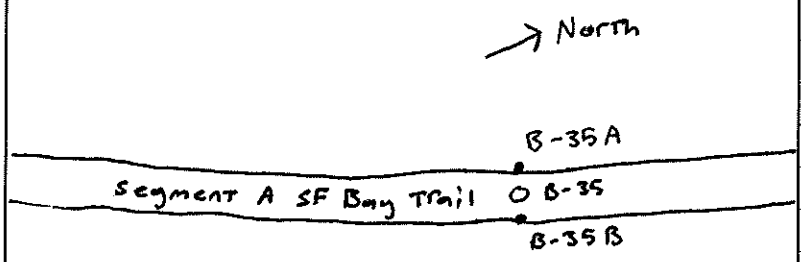
Bedrock was encountered at approximately 15-inches bgs.

NCE 8795 Folsom Blvd, Ste 250 Sacramento, CA 95826
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 48+50 To "B" 53+50
Drawing C9

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-35B |
| | TOTAL DEPTH: 15-inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Hand Auger | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0944 hours | DATE: 6/1/16 |
| COMPLETED, TIME: 0951 hours | DATE: 6/1/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
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| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

(8-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Lean clay (CL) - grayish brown (10YR5/2); predominantly low plastic fines; stiff; moist.

Bedrock was encountered at approximately 15-inches bgs.

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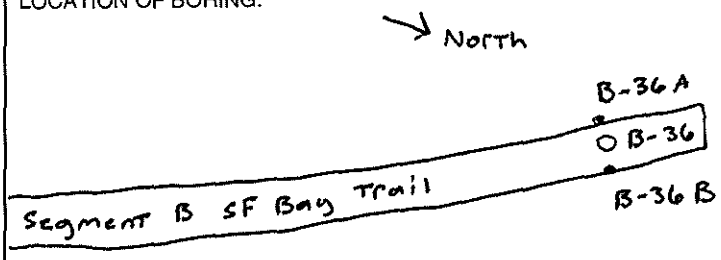
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 128+50 To "B" 133+50

Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-36A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2~ Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0954 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 0959 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 24 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
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| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (GM) - brown (7.5YR5/3); 30% non-plastic fines; 70% fine rounded gravel; medium dense; dry. Bedrock was encountered at approximately 18-inches bgs.

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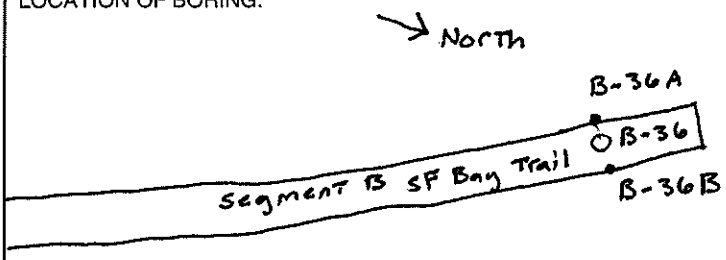
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 128+50 To "B" 133+50
Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-36B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0945 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 0955 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | SS |
| | | | | | | | | | | 3 | | | |
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| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (GM) - brown (7.5YR 5/3); 70% fine rounded gravel; 30% non-plastic fines; medium dense; dry. Bedrock was encountered at approximately 18-inches bgs.

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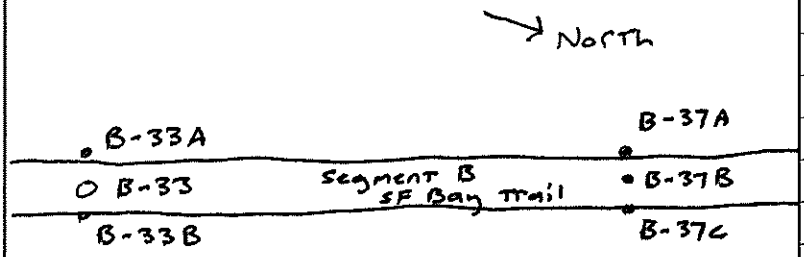
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 128+50 To "B" 133+50
Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-37A |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1018 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1024 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
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| | | | | | | | | | | 6 | | | |
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| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silty Gravel (GM) - brown (7.5YR5/3); 40% non-plastic fines; 60% fine rounded gravel; medium dense; dry.

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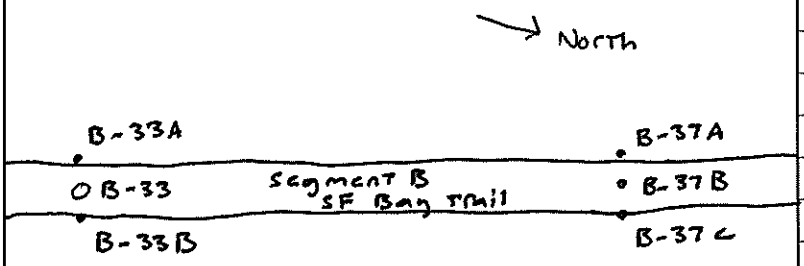
# FIELD LOG OF BORING

Sheet _____ of _____

LOCATION OF BORING:




"B" 128+50 to "B" 133+50
Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-37B |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04, 55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1004 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1012 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 24 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silt with sand (ML) - brown (7.5YR 5/3); ~~[illegible]~~ 90% non-plastic fines; 20% fine sand; medium stiff; dry.

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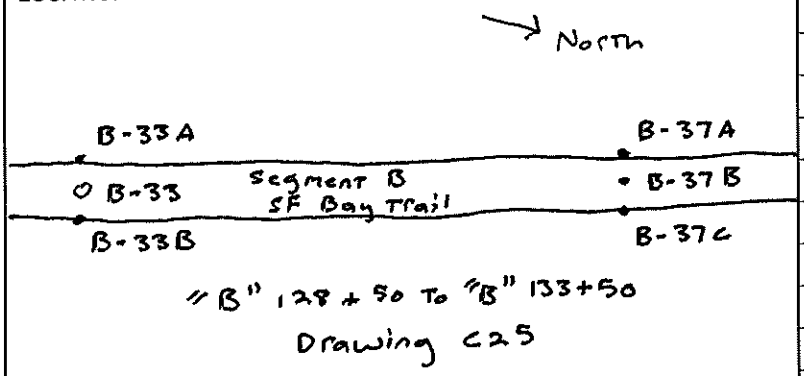
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 128+50 To "B" 133+50

Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-37C |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1012 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1018 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 24 | 24 | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
| | | | | | | | | | | 5 | | | |
| | | | | | | | | | | 6 | | | |
| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Silt with sand (ML) - brown (7.5YR5/3); 85% non-plastic fines; 15% fine sand; medium stiff; dry.

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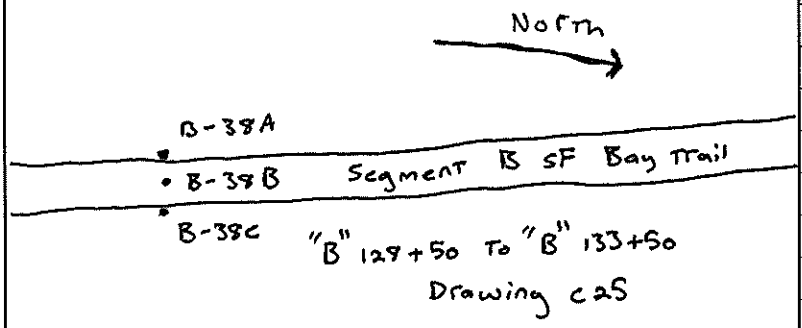
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-38A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1100 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1110 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | | Asphalt (3-inches) |
| | | | | | | | | | | 1 | | | | Silt with Sand (ML) - brown (7.5YR 5/3); 80%. non-plastic fines; 20% fine sand; medium stiff; dry. |
| | | | | | | | | | | 2 | | | | |
| | | | | | | | | | | 3 | | | | |
| | | | | | | | | | | 4 | | | | |
| | | | | | | | | | | 5 | | | | |
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| | | | | | | | | | | 7 | | | | |
| | | | | | | | | | | 8 | | | | |
| | | | | | | | | | | 9 | | | | |
| | | | | | | | | | | 10 | | | | |

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# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:

North

B-38A
B-38B Segment B SF Bay Trail
B-38C

"B" 128+50 To "B" 133+50
Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-38B |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1055 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1100 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 1 | | |
| | | | | | | | | | | 2 | | |
| | | | | | | | | | | 3 | | |
| | | | | | | | | | | 4 | | |
| | | | | | | | | | | 5 | | |
| | | | | | | | | | | 6 | | |
| | | | | | | | | | | 7 | | |
| | | | | | | | | | | 8 | | |
| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Asphalt (one inch)

Silt with sand (ML) - brown (7.5YR5/3); 80% non-plastic fines; 20% fine sand; medium ~~dense~~ stiff; dry.

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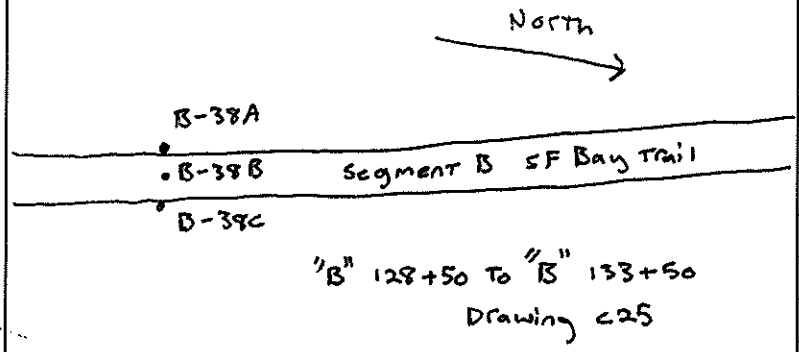
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 128+50 To "B" 133+50

Drawing C25

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-38C |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: 1093 hours | DROP: 5/31/16 |
| STARTED, TIME: 1052 hours | DATE: 5/31/16 |
| COMPLETED, TIME: | DATE: |

| | | | | |
|---|---|---|---|---|
| BORING DEPTH (ft.) | | | | |
| CASING DEPTH (ft.) | | | | |
| WATER DEPTH (ft.) | | | | |
| TIME: | | | | |
| DATE: | | | | |

BACKFILLED, TIME: DATE: BY:

SURFACE ELEV.: DATUM:

CONDITIONS:

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
| | | | | | | | | | | 4 | | | |
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| | | | | | | | | | | 7 | | | |
| | | | | | | | | | | 8 | | | |
| | | | | | | | | | | 9 | | | |
| | | | | | | | | | | 10 | | | |

Asphalt (4-inches thick)
Wood (one inch)
Silt with Sand (ML) - brown (7.5YR 5/3); 80% non-plastic fines; 20% fine sand; soft to medium stiff; dry.

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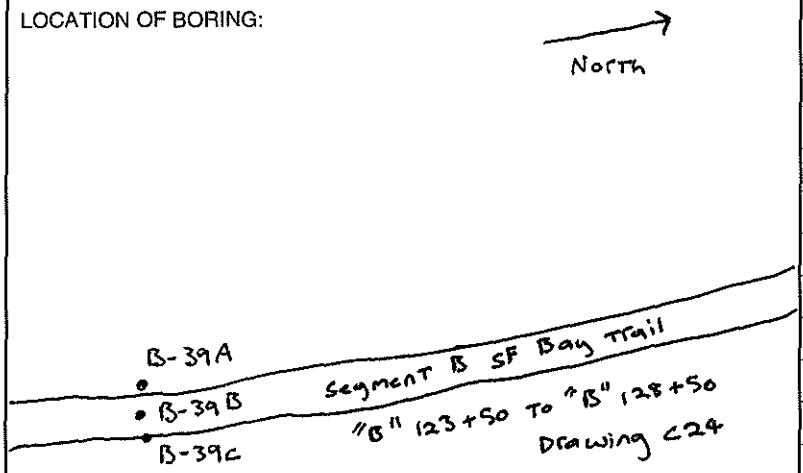
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-39A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2 - Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1120 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1125 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | |
| | | | | | | | | | | 1 | | |
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Silty Gravel with Sand (GM) - brown (7.5YR 5/3); 50% fine rounded gravel; 30% non-plastic fines; 20% fine sand; dense; dry.

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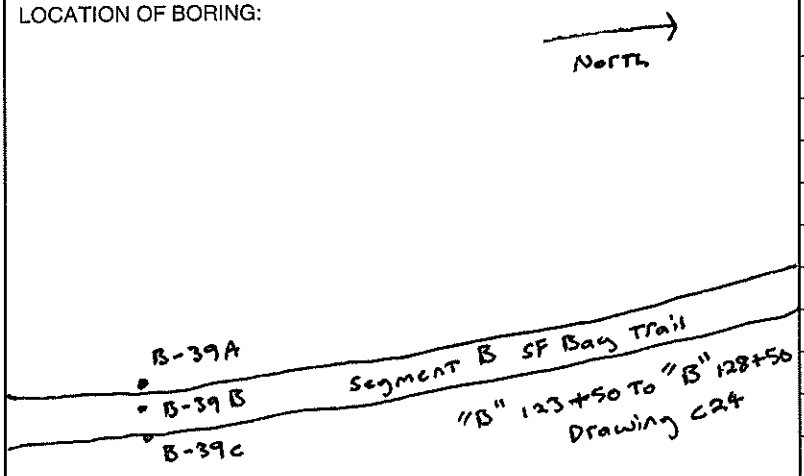
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-39B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2 - Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1116 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1120 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 1 | | | | Silty sand (SM) - very dark gray (10YR 3/1); 30% non-plastic fines; 70% fine sand; dense; dry. |
| | | | | | | | | | | 2 | | | | |
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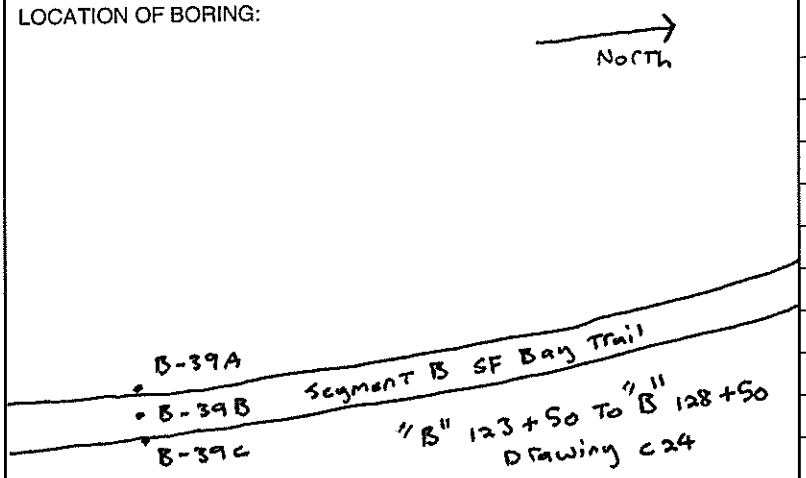
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-39C |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1110 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1116 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 20 | | | | | | 0 | | | Silty Sand (SM) - very dark gray (10YR 3/1), 30% non-plastic fines; 70% fine sand; very dense; dry. |
| | | | | | | | | | | 1 | | | |
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# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:

North ↘

B-40A

B-40B Segment B SF Bay Trail

B-40C

"B" 73+50 To "B" 78+50

Drawing C14

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-40C |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2 - Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1140 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1146 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 19" | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
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Asphalt (2-inches)
Basefock (2-inches)
silty clay with Gravel (CL-ML) - brown (7.5YR5/3); 80%. low to medium plastic fines; 20% fine rounded gravel; ~~dry~~ ~~soft~~ hard; moist.

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# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:

North

B-40A

• B-40B Segment B SF Bay Trail

B-40C

"B" 73+50 To "B" 78+50

Drawing C14

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-40A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1150 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1155 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 0 | | |
| | | | | | | | | | | 1 | | |
| | | | | | | | | | | 2 | | |
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| | | | | | | | | | | 9 | | |
| | | | | | | | | | | 10 | | |

Asphalt (2-inches)
Baserock (2-inches)
Silty clay with Gravel (CL-ML) - brown (7.5YR5/3); 80% low to medium plastic Fines; 20% fine rounded gravel; hard; moist.

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# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:

North ↘

B-40A

• B-40B Segment B SF Bay Trail

B-40C

"B" 73+50 To "B" 78+50

Drawing c14

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-40B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2 - Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1146 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1150 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 22 | | | | | | 0 | | | | Asphalt (2 inches) |
| | | | | | | | | | | | | | | Baserock (2 inches) |
| | | | | | | | | | | 1 | | | | City clay with gravel (CL-ML) - brown (7.5YR5/3), 80% low to medium plastic fines, 20% fine rounded gravel; hard; moist. |
| | | | | | | | | | | 2 | | | | |
| | | | | | | | | | | 3 | | | | |
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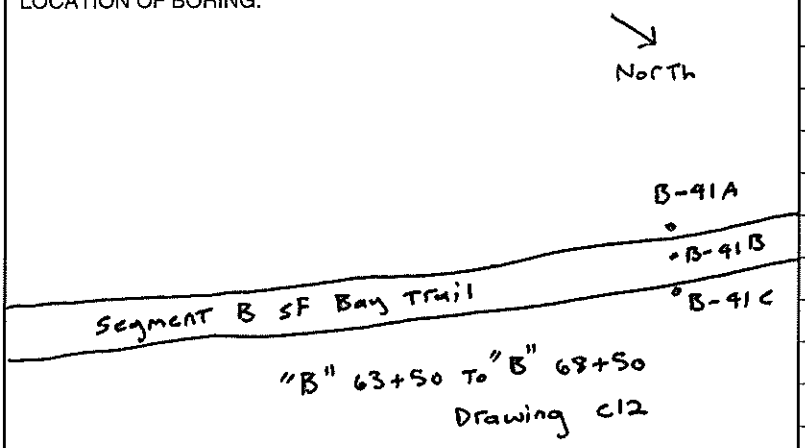
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 63+50 To "B" 68+50
Drawing C12

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-91A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1227 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1230 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry. |
| | | | | | | | | | | 1 | | | Fat clay (CH) - very dark brown (10YR 2/2); predominantly high plastic fines; very stiff; moist. |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
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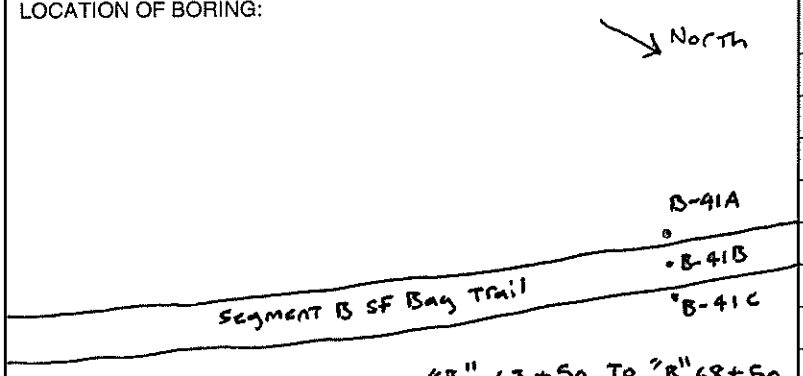
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 63+50 To "B" 68+50

Drawing C12

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-41B |
| | TOTAL DEPTH: 2- Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1222 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1227 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 19 | | | | | | 0 | | | | Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry. |
| | | | | | | | | | | 1 | | | | |
| | | | | | | | | | | 2 | | | | Fat Clay (CH) - very dark brown (10YR2/2); predominantly high plastic fines; very stiff; moist. |
| | | | | | | | | | | 3 | | | | |
| | | | | | | | | | | 4 | | | | |
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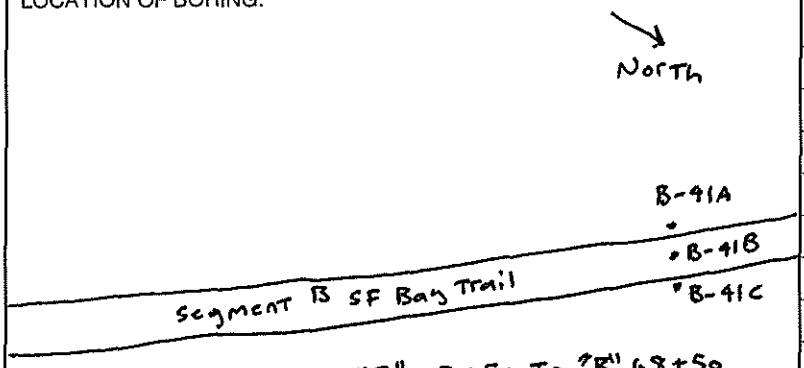
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 63+50 To "B" 68+50

Drawing C12

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-41C |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1216 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1222 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | 19/0/0 | Silty Gravel with Sand (GM) - very dark grayish brown (10YR 3/2), 30% non-plastic fines, 20% fine sand, 50% fine rounded gravel, loose, dry. |
| | | | | | | | | | | 1 | | | Fat clay (CH) - very dark brown (10YR 2/2), predominantly high plastic fines, very stiff, moist. |
| | | | | | | | | | | 2 | | | |
| | | | | | | | | | | 3 | | | |
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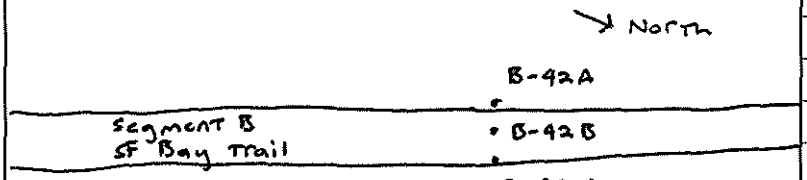
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 59+50 To "B" 63+50

Drawing C11

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-42A |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1334 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1337 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
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| | | | | | | | | | | 10 | | | |

Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry

Fat Clay (CH) - very dark brown (10YR2/2); predominantly high plastic fines; very stiff; moist.

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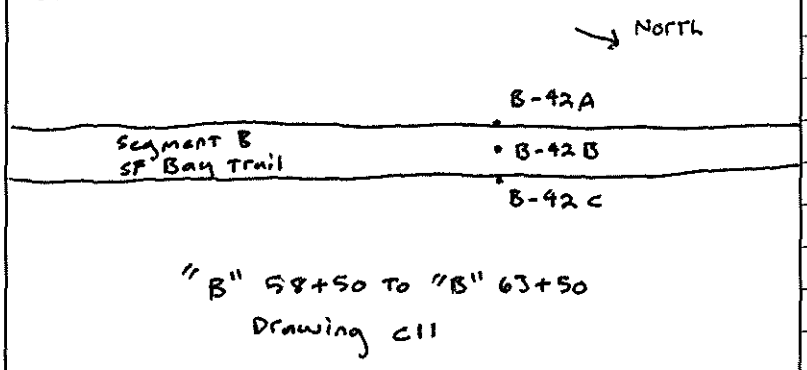
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 58+50 to "B" 63+50
Drawing C11

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-42B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1337 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1340 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 15 | | | 0 | | |

0 – Silty gravel with sand (GM) – very dark grayish brown (10YR3/2); 30%, non-plastic fines; 20% fine sand; 30% fine rounded gravel; 100SC; dry

1 – Fat clay (CH) – very dark brown (10YR2/2); predominantly high plastic fines; very stiff moist,

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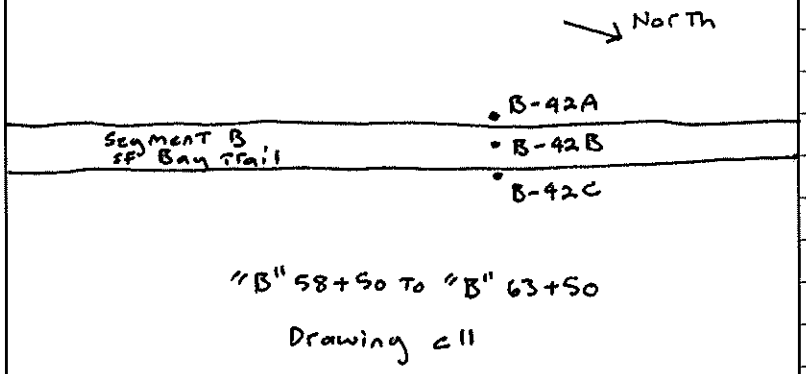
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-42C |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1340 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1345 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 24 | | | | | | 0 | | | 100% |
| | | | | | | | | | | 1 | | | |
| | | | | | | | | | | 2 | | | |
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Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry.

Fat clay (CH) - very dark brown (10YR2/2) predominantly high plastic fines; very stiff; moist.

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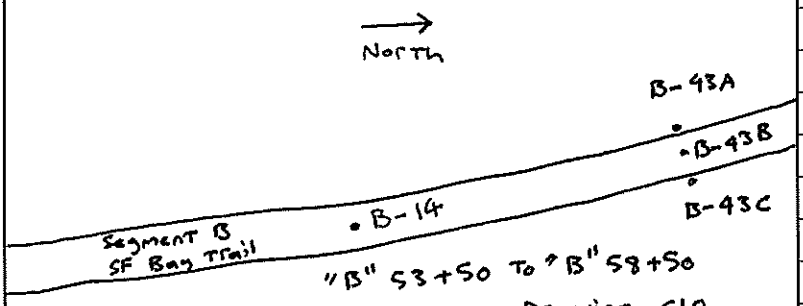
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 53+50 To "B" 58+50

Drawing C10

| | |
|---|---|
| PROJECT: E.B.R.P.D. SF Bay Trail at Point Molate | BORING NO.: B-43A |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1313 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1318 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
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Silty Gravel with Sand (GM) - very dark grayish brown (10YR3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry.

Fat Clay (CH) - very dark brown (10YR2/2); predominantly high plastic fines; very stiff; moist.

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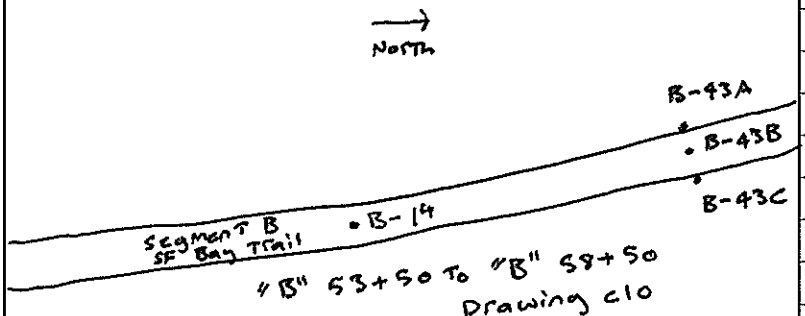
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 53+50 To "B" 58+50
Drawing c10

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-43B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2 - Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1318 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1323 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 14 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
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0'-1': City Gravel with sand (GM) - very dark grayish brown (10YR 3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry.

1'-2': Fat clay (CH) - very dark brown (10YR 2/2); predominantly high plastic fines; very stiff; moist.

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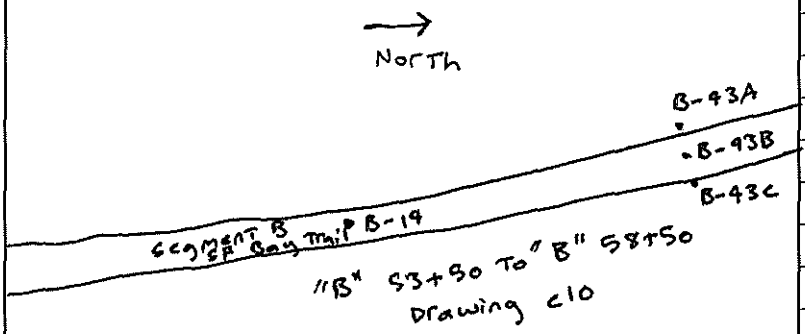
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-43C |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2- Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1323 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1328 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |

Silty Gravel with Sand (GM) - very dark grayish brown (10YR 3/2); 30% non-plastic fines; 20% fine sand; 50% fine rounded gravel; loose; dry.

Fat Clay (CH) - very dark brown (10YR 2/2), predominantly high plastic fines; very stiff; moist.

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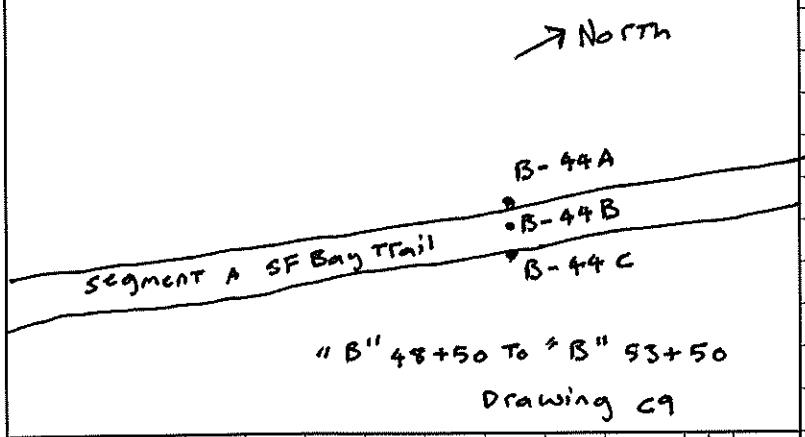
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 48+50 To "B" 53+50

Drawing C9

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-44A |
| JOB NO.: 567.04.35 | TOTAL DEPTH: ~~[illegible]~~ 16-inc |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Hand Auger | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0911 hours | DATE: 6/1/16 |
| COMPLETED, TIME: 0935 hours | DATE: 6/1/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | |
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~~[illegible]~~ Poorly Graded Gravel (GP) - very dark gray (10YR 3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Silty Gravel (GM) - very dark gray (10YR 3/1), 40% non-plastic fines; 60% fine rounded gravel; loose; dry.

Bedrock was encountered at approximate 16-inches bgs.

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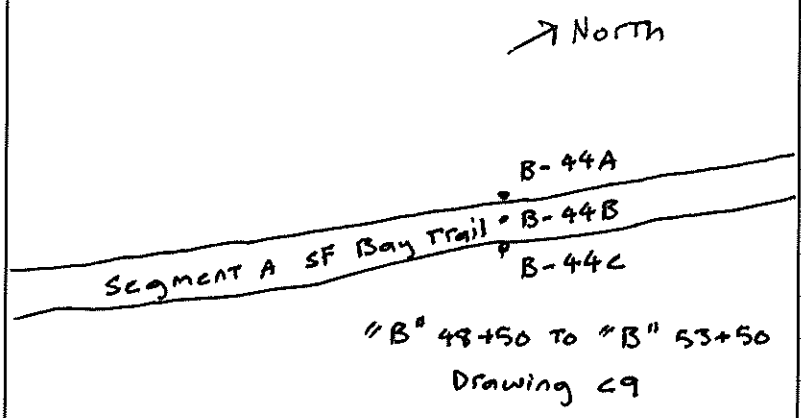
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 48+50 to "B" 53+50
Drawing C9

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-44B |
| | TOTAL DEPTH: 16+- inches |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Hand Auger | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0935 hours | DATE: 6/1/16 |
| COMPLETED, TIME: 0990 hours | DATE: 6/1/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | |
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| | | | | | | | | | | 10 | | | |

Poorly Graded Gravel - very dark gray (10YR3/1), predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Silty Gravel (GM) - very dark gray (10YR3/1); 40% non-plastic fines; 60% fine rounded gravel; loose; dry.

Bedrock was encountered at approximately 16-inches bgs.

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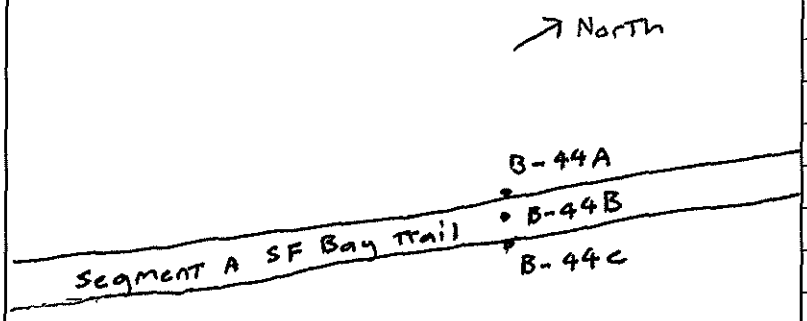
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 48+50 To "B" 53+50
Drawing C9

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-44C |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 18" inches |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Hand Auger | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 0937 hours | DATE: 6/1/16 |
| COMPLETED, TIME: 0943 hours | DATE: 6/1/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | |
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| | | | | | | | | | | 10 | | |

Silty Gravel (GM) - very dark gray (10YR3/1); 40% non-plastic fines; 60% Fine rounded gravel; loose; dry.

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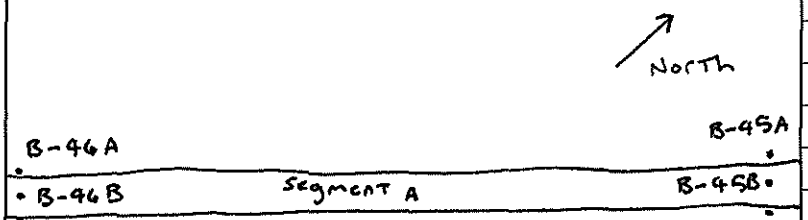
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing c8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-45A |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1453 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1500 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 15 | | | | | | 0 | | |
| | | | | | | | | | | 1 | | |
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| | | | | | | | | | | 10 | | |

(2-inches) Poorly Graded Gravel (GM) - very dark gray (10YR 3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Lean clay with sand (CL) - brown (7.5YR 3); 85% low plastic fines; 15% fine sand; very stiff; moist.

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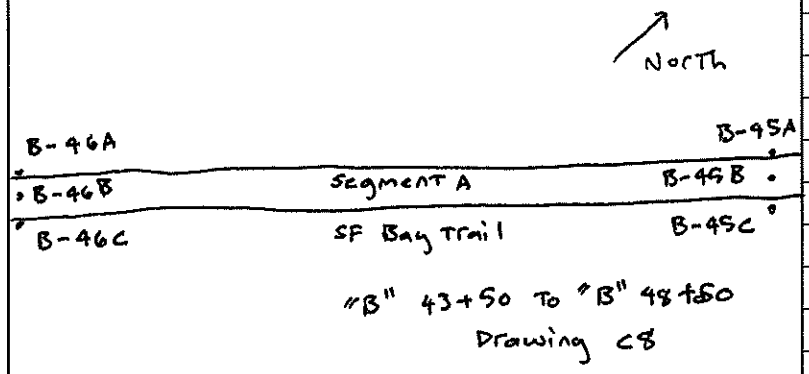
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50
Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-45B |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2 - Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1448 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1453 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 15 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
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| | | | | | | | | | | 10 | | | |

(2-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

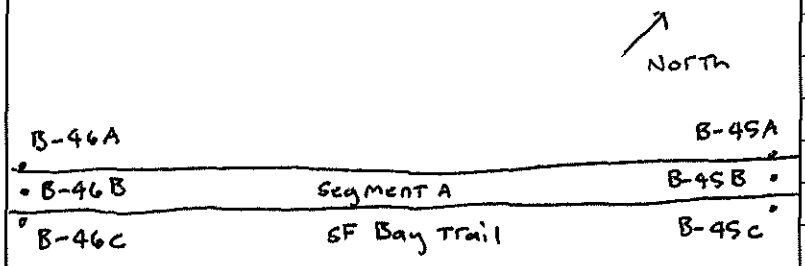
Lean clay with sand (CL) - brown (7.5YR3); 85% low plastic fines; 15% Fine sand; very stiff; moist.

NCE 8795 Folsom Blvd, Ste 250 Sacramento, CA 95826
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50
Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-45C |
| | TOTAL DEPTH: 2- Feet |
| JOB NO.: 367.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1442 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1448 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 16 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
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| | | | | | | | | | | 10 | | | |

(2-inches) Poorly Graded Gravel (GP) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Lean clay with Sand (CL) - brown (7.5YR3/3); 85%. low plastic fines; 15%. fine sand; very stiff; moist.

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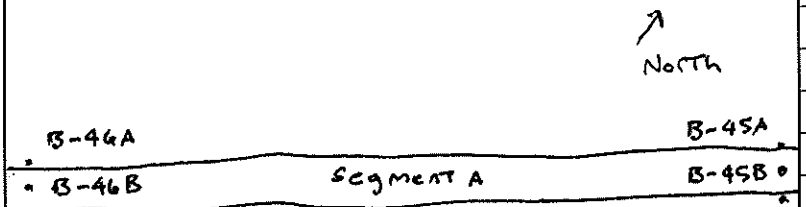
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-46A |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1424 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1429 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 24 | 18 | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
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(3inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry

Lean clay with sand (CL) - brown (7.5YR3); 85%, low plastic fines; 15% fine sand; very stiff; moist.

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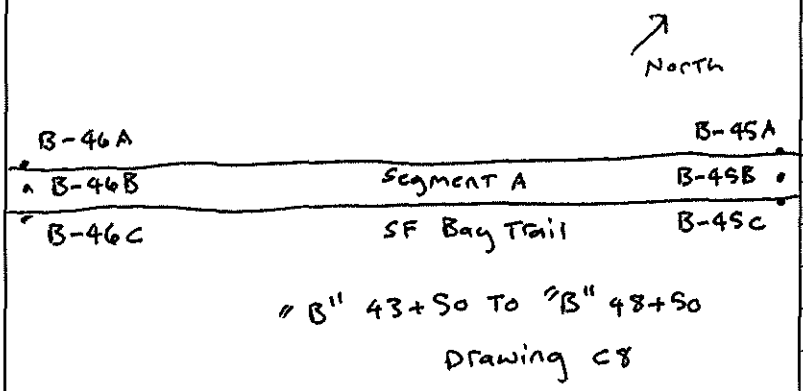
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-46B |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1429 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1436 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 14 | | | | | | 0 | | |
| | | | | | | | | | | 1 | | |
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| | | | | | | | | | | 10 | | |

(3-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Lean clay with sand (CL) - brown (7.5YR5/3); 85% low plastic fines; 15% fine sand; very stiff; moist.

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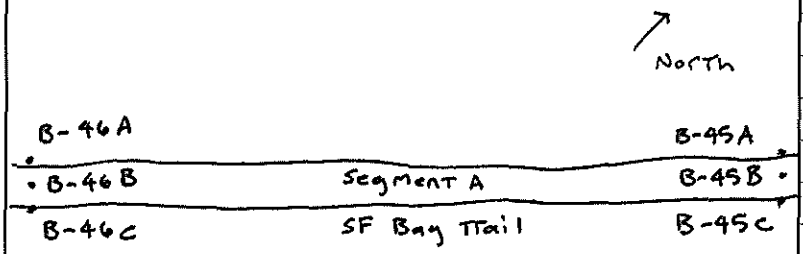
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-46C |
| JOB NO.: 567.04.55 | TOTAL DEPTH: 2-Feet |
| PROJ. MGR.: R. Shafer | LOGGED BY: B. Bardsley |
| DRILLING CONTRACTOR: Confluence Environmental | EDITED BY: |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1436 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1442 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 13 | | | | | | 0 | | | |
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(3-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

Lean clay with sand (CL) - brown (7.5YR3 85%, low plastic fines; 15% fine sand; very stiff; moist.

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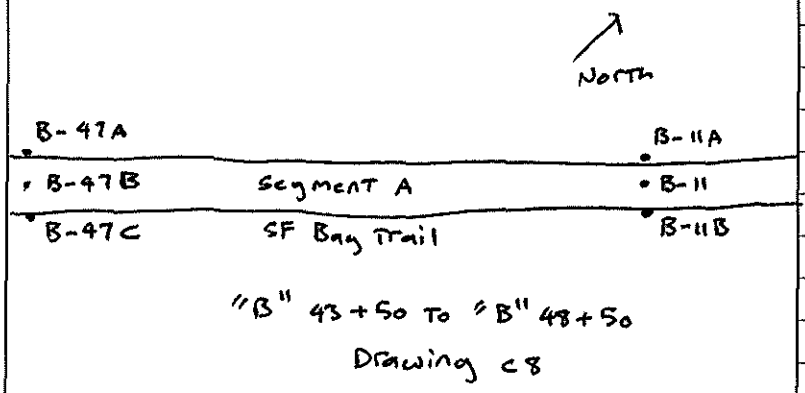
# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-47A |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1408 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1415 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 24 | | | | | | 0 | | | |
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(3-inches) Poorly Graded Gravel (GM) - very dark gray (10YR 3/1); predominantly fine rounded gravel; Trace amounts of non-plastic fines; d

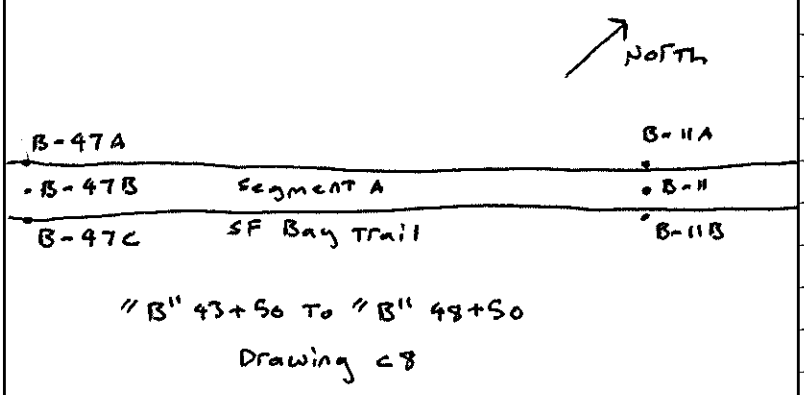
Lean clay with sand (CL) - brown (7.5YR 3); 85%. Low plastic fines; 15%. fine sand; very stiff; moist.

ANCE 8795 Folsom Blvd, Ste 250 Sacramento, CA 95826
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 To "B" 48+50

Drawing c8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-47B |
| | TOTAL DEPTH: 2 - Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Shafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: Continuous Core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1405 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1408 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | |
| | | | | | | | | | | 1 | | |
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| | | | | | | | | | | 10 | | |

(3-inches) Poorly Graded Gravel (GM) - very dark gray (10YR3/1); predominantly fine rounded gravel; trace amounts of non-plastic fines; dry.

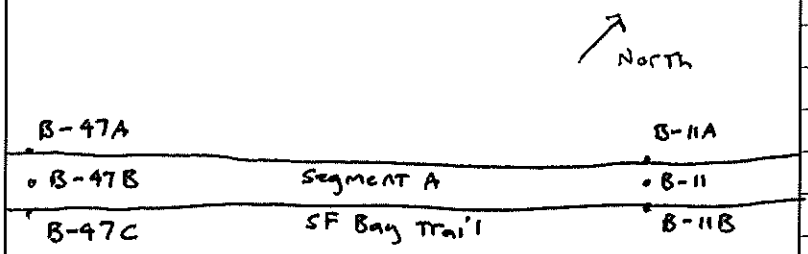
Lean clay (CL) - brown (7.5YR3); 85% low plastic fines; 15% fine sand; very stiff; moist.

ANCE 8795 Folsom Blvd, Ste 250 Sacramento, CA 95826
P: 916.388.5655 F: 916.388.5676

# FIELD LOG OF BORING

Sheet 1 of 1

LOCATION OF BORING:




"B" 43+50 to "B" 48+50
Drawing C8

| | |
|---|---|
| PROJECT: EBRPD SF Bay Trail at Point Molate | BORING NO.: B-47C |
| | TOTAL DEPTH: 2-Feet |
| JOB NO.: 567.04.55 | LOGGED BY: B. Bardsley |
| PROJ. MGR.: R. Snafer | EDITED BY: |
| DRILLING CONTRACTOR: Confluence Environmental | |
| DRILL RIG TYPE: Direct Push | |
| DRILLER'S NAME: Jesus Morales | |
| SAMPLING METHODS: continuous core | |
| HAMMER WT.: | DROP: |
| STARTED, TIME: 1401 hours | DATE: 5/31/16 |
| COMPLETED, TIME: 1405 hours | DATE: 5/31/16 |
| BORING DEPTH (ft.) | |
| CASING DEPTH (ft.) | |
| WATER DEPTH (ft.) | |
| TIME: | |
| DATE: | |
| BACKFILLED, TIME: | DATE: BY: |
| SURFACE ELEV.: | DATUM: |
| CONDITIONS: | |

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS / 6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE | | | | DEPTH IN FEET | HYDROPUNCH/OTHER | SAMPLE RECOVERY | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 24 | 18 | | | | | | 0 | | | |
| | | | | | | | | | | 1 | | | |
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| | | | | | | | | | | 10 | | | |

(3-inches) Poorly Graded Gravel (GM) - very dark gray (10YR 3/1), predominantly fine rounded gravel, trace amounts of non-plastic fines, dry.

Lean clay with sand (CL) - brown (7.5YR 3), 95% low plastic fines; 15% fine sand, very stiff, moist.

# ATTACHMENT C

# SOIL SAMPLE LABORATORY ANALYTICAL REPORTS

# EXCELCHEM
## Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449

**ELAP Certificate No. : 2119**

23 March 2016

Brett Bardsley

NCE

8795 Folsom Boulevard, Suite 250

Sacramento, CA 95826

RE: Port of Richmond (Shipyard No. 3)

Work order number:1603100

Enclosed are the results of analyses for samples received by the laboratory on 03/11/16 11:15. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

_____

John Somers, Lab Director

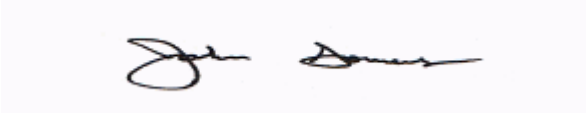
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| B-1-0.5 | 1603100-01 | Soil | 03/08/16 09:56 | 03/11/16 11:15 |
| B-1-1.5 | 1603100-02 | Soil | 03/08/16 10:00 | 03/11/16 11:15 |
| B-2-0.5 | 1603100-03 | Soil | 03/08/16 10:36 | 03/11/16 11:15 |
| B-2-1.5 | 1603100-04 | Soil | 03/08/16 10:41 | 03/11/16 11:15 |
| B-3-0.5 | 1603100-05 | Soil | 03/08/16 11:04 | 03/11/16 11:15 |
| B-4-0.5 | 1603100-06 | Soil | 03/08/16 11:33 | 03/11/16 11:15 |
| B-4-1.5 | 1603100-07 | Soil | 03/08/16 11:38 | 03/11/16 11:15 |
| B-5-0.5 | 1603100-08 | Soil | 03/08/16 12:20 | 03/11/16 11:15 |
| B-5-1.5 | 1603100-09 | Soil | 03/08/16 12:30 | 03/11/16 11:15 |
| B-6-0.4 | 1603100-10 | Soil | 03/08/16 12:54 | 03/11/16 11:15 |
| B-7-0.4 | 1603100-11 | Soil | 03/08/16 13:11 | 03/11/16 11:15 |
| B-34-0.5 | 1603100-12 | Soil | 03/08/16 13:41 | 03/11/16 11:15 |
| B-8-0.2 | 1603100-13 | Soil | 03/08/16 14:04 | 03/11/16 11:15 |
| B-14-0.5 | 1603100-14 | Soil | 03/08/16 15:10 | 03/11/16 11:15 |
| B-14-1.5 | 1603100-15 | Soil | 03/08/16 15:15 | 03/11/16 11:15 |
| B-15-0.5 | 1603100-16 | Soil | 03/08/16 15:47 | 03/11/16 11:15 |
| B-15-1.5 | 1603100-17 | Soil | 03/08/16 15:52 | 03/11/16 11:15 |
| B-16-0.3 | 1603100-18 | Soil | 03/08/16 16:36 | 03/11/16 11:15 |
| B-16-1.5 | 1603100-19 | Soil | 03/08/16 16:40 | 03/11/16 11:15 |
| B-17-0.5 | 1603100-20 | Soil | 03/09/16 08:43 | 03/11/16 11:15 |
| B-17-1.5 | 1603100-21 | Soil | 03/09/16 08:46 | 03/11/16 11:15 |
| B-18-0.5 | 1603100-22 | Soil | 03/09/16 09:24 | 03/11/16 11:15 |
| B-18-1.5 | 1603100-23 | Soil | 03/09/16 09:29 | 03/11/16 11:15 |
| B-19-0.5 | 1603100-24 | Soil | 03/09/16 09:56 | 03/11/16 11:15 |
| B-19-1.5 | 1603100-25 | Soil | 03/09/16 09:59 | 03/11/16 11:15 |
| B-20-0.3 | 1603100-26 | Soil | 03/09/16 10:26 | 03/11/16 11:15 |
| B-21-0.5 | 1603100-27 | Soil | 03/09/16 10:45 | 03/11/16 11:15 |
| B-21-1.5 | 1603100-28 | Soil | 03/09/16 10:48 | 03/11/16 11:15 |
| B-22-0.4 | 1603100-29 | Soil | 03/09/16 11:09 | 03/11/16 11:15 |

Excelchem Environmental Lab.



Laboratory Representative

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

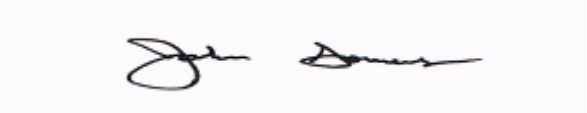
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| B-28-0.3 | 1603100-30 | Soil | 03/09/16 11:44 | 03/11/16 11:15 |
| B-29-0 | 1603100-31 | Soil | 03/09/16 12:12 | 03/11/16 11:15 |
| B-30-0.2 | 1603100-32 | Soil | 03/09/16 12:33 | 03/11/16 11:15 |
| B-30-1.5 | 1603100-33 | Soil | 03/09/16 12:37 | 03/11/16 11:15 |
| B-27-0.5 | 1603100-34 | Soil | 03/09/16 12:55 | 03/11/16 11:15 |
| B-27-1.5 | 1603100-35 | Soil | 03/09/16 12:58 | 03/11/16 11:15 |
| B-26-0.5 | 1603100-36 | Soil | 03/09/16 13:29 | 03/11/16 11:15 |
| B-25-0.5 | 1603100-37 | Soil | 03/09/16 13:54 | 03/11/16 11:15 |
| B-25-1.5 | 1603100-38 | Soil | 03/09/16 13:58 | 03/11/16 11:15 |
| B-24-0.3 | 1603100-39 | Soil | 03/09/16 14:29 | 03/11/16 11:15 |
| B-23-0.5 | 1603100-40 | Soil | 03/09/16 14:49 | 03/11/16 11:15 |
| B-23-1.5 | 1603100-41 | Soil | 03/09/16 14:53 | 03/11/16 11:15 |
| B-31-0.5 | 1603100-42 | Soil | 03/09/16 15:15 | 03/11/16 11:15 |
| B-31-1.5 | 1603100-43 | Soil | 03/09/16 15:20 | 03/11/16 11:15 |
| B-32-1.5 | 1603100-44 | Soil | 03/09/16 15:40 | 03/11/16 11:15 |
| B-33-0.2 | 1603100-45 | Soil | 03/09/16 16:23 | 03/11/16 11:15 |
| B-36-0.5 | 1603100-46 | Soil | 03/09/16 16:46 | 03/11/16 11:15 |
| B-36-1.5 | 1603100-47 | Soil | 03/09/16 16:53 | 03/11/16 11:15 |
| B-9-0.2 | 1603100-48 | Soil | 03/10/16 09:03 | 03/11/16 11:15 |
| B-10-0.5 | 1603100-49 | Soil | 03/10/16 09:22 | 03/11/16 11:15 |
| B-10-1.5 | 1603100-50 | Soil | 03/10/16 09:27 | 03/11/16 11:15 |
| B-11-0.5 | 1603100-51 | Soil | 03/10/16 09:44 | 03/11/16 11:15 |
| B-11-1.5 | 1603100-52 | Soil | 03/10/16 09:49 | 03/11/16 11:15 |
| B-35-0.8 | 1603100-53 | Soil | 03/10/16 12:44 | 03/11/16 11:15 |
| B-35-1.5 | 1603100-54 | Soil | 03/10/16 12:49 | 03/11/16 11:15 |
| B-13-0.5 | 1603100-55 | Soil | 03/10/16 13:56 | 03/11/16 11:15 |
| B-13-1.5 | 1603100-56 | Soil | 03/10/16 14:00 | 03/11/16 11:15 |
| B-3-1.5 | 1603100-57 | Soil | 03/08/16 11:12 | 03/11/16 11:15 |

Excelchem Environmental Lab.



Laboratory Representative

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| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

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**B-1-0.5**

**1603100-01 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **9.3** | 1.0 | " | " | " | " | " | |

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**B-1-1.5**

**1603100-02 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.9** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **8.4** | 1.0 | " | " | " | " | " | |

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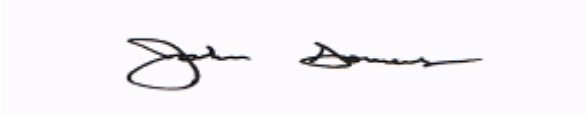
**B-2-0.5**

**1603100-03 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.9** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **13.1** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



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**B-2-1.5**

**1603100-04 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **9.2** | 1.0 | " | " | " | " | " | |

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**B-3-0.5**

**1603100-05 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.6** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **63.5** | 1.0 | " | " | " | " | " | |

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**B-4-0.5**

**1603100-06 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.2** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **14.2** | 1.0 | " | " | " | " | " | |

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| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-4-1.5**

**1603100-07 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.4** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **7.8** | 1.0 | " | " | " | " | " | |

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**B-5-0.5**

**1603100-08 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **527** | 1.0 | " | " | " | " | " | |

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
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| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-5-1.5**

**1603100-09 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **9.0** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-6-0.4**

**1603100-10 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.1** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **9.7** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-7-0.4**

**1603100-11 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **8.3** | 1.0 | " | " | " | " | " | |

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-34-0.5**

**1603100-12 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.4** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **8.2** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
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| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-8-0.2**

**1603100-13 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **11.9** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
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| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-14-0.5**

**1603100-14 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **26.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **10.8** | 1.0 | " | " | " | " | " | |

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| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-14-1.5**

**1603100-15 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **12.2** | 1.0 | " | " | " | " | " | |

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| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-15-0.5**

**1603100-16 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **8.9** | 1.0 | " | " | " | " | " | |

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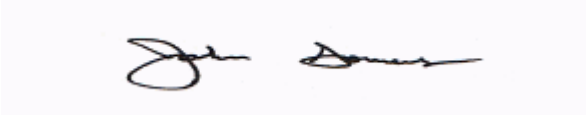

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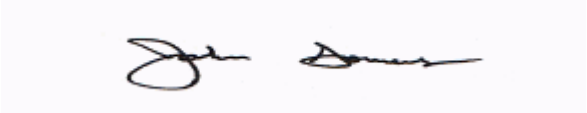
**B-15-1.5**

**1603100-17 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.1** | 2.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **19.9** | 2.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
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| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-16-0.3**

**1603100-18 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.1** | 2.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **12.1** | 2.0 | " | " | " | " | " | |

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|---|---|---|---|
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### B-16-1.5
### 1603100-19 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.2** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **11.4** | 1.0 | " | " | " | " | " | |

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**B-17-0.5**

**1603100-20 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **14.8** | 1.0 | " | " | " | " | " | |

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**B-17-1.5**

**1603100-21 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **10.3** | 1.0 | " | " | " | " | " | |

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-18-0.5**

**1603100-22 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **11.0** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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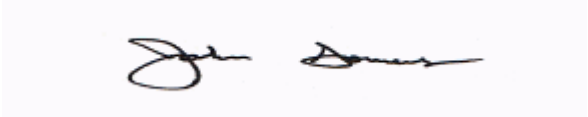
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-18-1.5**

**1603100-23 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **14.0** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-19-0.5**

**1603100-24 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| Lead | ND | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-19-1.5**

**1603100-25 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.7** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **11.2** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-20-0.3**

**1603100-26 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **9.6** | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-21-0.5**

**1603100-27 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **9.2** | 1.0 | " | " | " | " | " | |

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-21-1.5**

**1603100-28 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **10.2** | 1.0 | " | " | " | " | " | |

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-22-0.4**

**1603100-29 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.1** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **69.5** | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-28-0.3**

**1603100-30 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **16.9** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-29-0**

**1603100-31 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.4** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **10.4** | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-30-0.2**

**1603100-32 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **19.2** | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-30-1.5**

**1603100-33 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **16.3** | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-27-0.5**

**1603100-34 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **15.5** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-27-1.5**

**1603100-35 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.7** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **14.7** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-26-0.5**

**1603100-36 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.7** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **14.5** | 1.0 | " | " | " | " | " | |

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Laboratory Representative

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-25-0.5**

**1603100-37 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **34.5** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-25-1.5**

**1603100-38 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **12.9** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-24-0.3**

**1603100-39 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.0** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **5.7** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-23-0.5**

**1603100-40 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.4** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **6.1** | 1.0 | " | " | " | " | " | |

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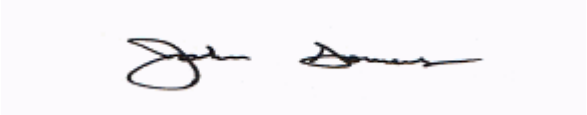
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-23-1.5**

**1603100-41 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.6** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/17/16 | EPA 6010B | |
| **Lead** | **2.3** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-31-0.5**

**1603100-42 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **14.6** | 1.0 | " | " | " | " | " | |

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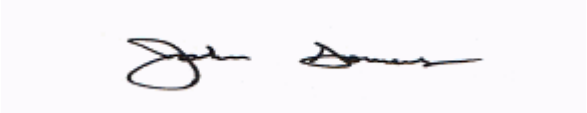
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-31-1.5**

**1603100-43 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.1** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **11.8** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-32-1.5**

**1603100-44 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.9** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **10.6** | 1.0 | " | " | " | " | " | |

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|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-33-0.2**

**1603100-45 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **7.7** | 1.0 | " | " | " | " | " | |

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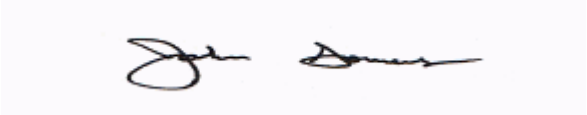
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-36-0.5**

**1603100-46 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **11.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **26.9** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



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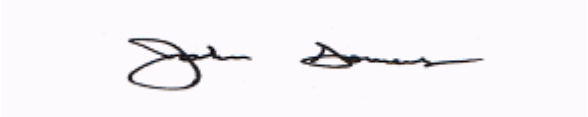
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-36-1.5**

**1603100-47 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **10.1** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **14.6** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



Laboratory Representative

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-9-0.2**

**1603100-48 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **7.2** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-10-0.5**

**1603100-49 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.3** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **31.8** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-10-1.5**

**1603100-50 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.9** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **46.2** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-11-0.5**

**1603100-51 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **12.8** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **19.9** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-11-1.5**

**1603100-52 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **13.4** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **15.5** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-35-0.8**

**1603100-53 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **14.9** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **20.6** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-35-1.5**

**1603100-54 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.5** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **9.3** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-13-0.5**

**1603100-55 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **26.9** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **31.8** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

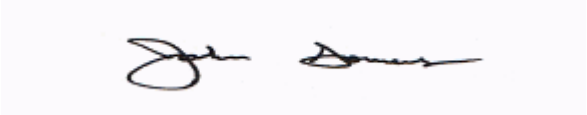
| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-13-1.5**

**1603100-56 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **11.1** | 2.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **19.7** | 2.0 | " | " | " | " | " | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**B-3-1.5**

**1603100-57 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.7** | 1.0 | mg/kg | AZC0162 | 03/16/16 | 03/18/16 | EPA 6010B | |
| **Lead** | **36.9** | 1.0 | " | " | " | " | " | |

Excelchem Environmental Lab.

Laboratory Representative

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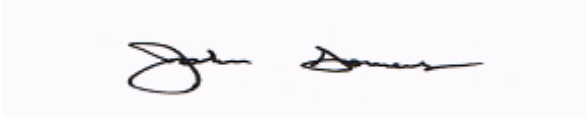
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

## Total Recoverable Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZC0162 - EPA 6010B** | | | | | | | | | | |
| **Blank (AZC0162-BLK1)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| Lead | ND | 1.0 | " | | | | | | | |
| **Blank (AZC0162-BLK2)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| Lead | ND | 1.0 | " | | | | | | | |
| **Blank (AZC0162-BLK3)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| Lead | ND | 1.0 | " | | | | | | | |
| **LCS (AZC0162-BS1)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 93.4 | 1.0 | mg/kg | 100 | | 93.4 | 80-120 | | | |
| Lead | 98.4 | 1.0 | " | 100 | | 98.4 | 80-120 | | | |
| **LCS (AZC0162-BS2)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 91.9 | 1.0 | mg/kg | 100 | | 91.9 | 80-120 | | | |
| Lead | 94.3 | 1.0 | " | 100 | | 94.3 | 80-120 | | | |
| **LCS (AZC0162-BS3)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 93.5 | 1.0 | mg/kg | 100 | | 93.5 | 80-120 | | | |
| Lead | 97.5 | 1.0 | " | 100 | | 97.5 | 80-120 | | | |
| **LCS Dup (AZC0162-BSD1)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 93.3 | 1.0 | mg/kg | 100 | | 93.3 | 80-120 | 0.139 | 25 | |
| Lead | 98.0 | 1.0 | " | 100 | | 98.0 | 80-120 | 0.489 | 25 | |
| **LCS Dup (AZC0162-BSD2)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 91.8 | 1.0 | mg/kg | 100 | | 91.8 | 80-120 | 0.131 | 25 | |
| Lead | 94.0 | 1.0 | " | 100 | | 94.0 | 80-120 | 0.382 | 25 | |

Excelchem Environmental Lab.



Laboratory Representative

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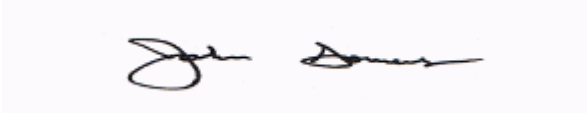
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

## Total Recoverable Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZC0162 - EPA 6010B** | | | | | | | | | | |
| **LCS Dup (AZC0162-BSD3)** | | | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 92.5 | 1.0 | mg/kg | 100 | | 92.5 | 80-120 | 1.14 | 25 | |
| Lead | 96.9 | 1.0 | " | 100 | | 96.9 | 80-120 | 0.586 | 25 | |
| **Matrix Spike (AZC0162-MS1)** | | **Source: 1603100-01** | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 85.0 | 1.0 | mg/kg | 100 | 2.48 | 82.5 | 75-125 | | | |
| Lead | 88.0 | 1.0 | " | 100 | 9.28 | 78.7 | 75-125 | | | |
| **Matrix Spike (AZC0162-MS2)** | | **Source: 1603100-21** | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 78.2 | 1.0 | mg/kg | 100 | 4.52 | 73.7 | 75-125 | | | QL-01 |
| Lead | 80.0 | 1.0 | " | 100 | 10.3 | 69.8 | 75-125 | | | QL-01 |
| **Matrix Spike (AZC0162-MS3)** | | **Source: 1603100-41** | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 81.5 | 1.0 | mg/kg | 100 | 1.62 | 79.9 | 75-125 | | | |
| Lead | 66.8 | 1.0 | " | 100 | 2.33 | 64.5 | 75-125 | | | QL-01 |
| **Matrix Spike Dup (AZC0162-MSD1)** | | **Source: 1603100-01** | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 84.9 | 1.0 | mg/kg | 100 | 2.48 | 82.4 | 75-125 | 0.0471 | 25 | |
| Lead | 87.2 | 1.0 | " | 100 | 9.28 | 78.0 | 75-125 | 0.845 | 25 | |
| **Matrix Spike Dup (AZC0162-MSD2)** | | **Source: 1603100-21** | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 80.0 | 1.0 | mg/kg | 100 | 4.52 | 75.5 | 75-125 | 2.29 | 25 | |
| Lead | 81.7 | 1.0 | " | 100 | 10.3 | 71.4 | 75-125 | 2.09 | 25 | QL-01 |
| **Matrix Spike Dup (AZC0162-MSD3)** | | **Source: 1603100-41** | | Prepared: 03/16/16 Analyzed: 03/17/16 | | | | | | |
| Arsenic | 78.2 | 1.0 | mg/kg | 100 | 1.62 | 76.6 | 75-125 | 4.06 | 25 | |
| Lead | 65.9 | 1.0 | " | 100 | 2.33 | 63.6 | 75-125 | 1.40 | 25 | QL-01 |

Excelchem Environmental Lab.



Laboratory Representative

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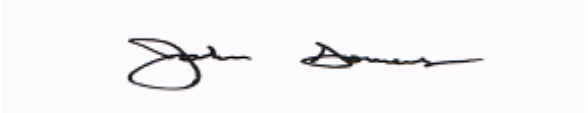
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

### Notes and Definitions

| | |
|---|---|
| QL-01 | Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values. |
| ND | Analyte not detected at the reporting limit. |
| NR | Not reported |

Excelchem Environmental Lab.



Laboratory Representative

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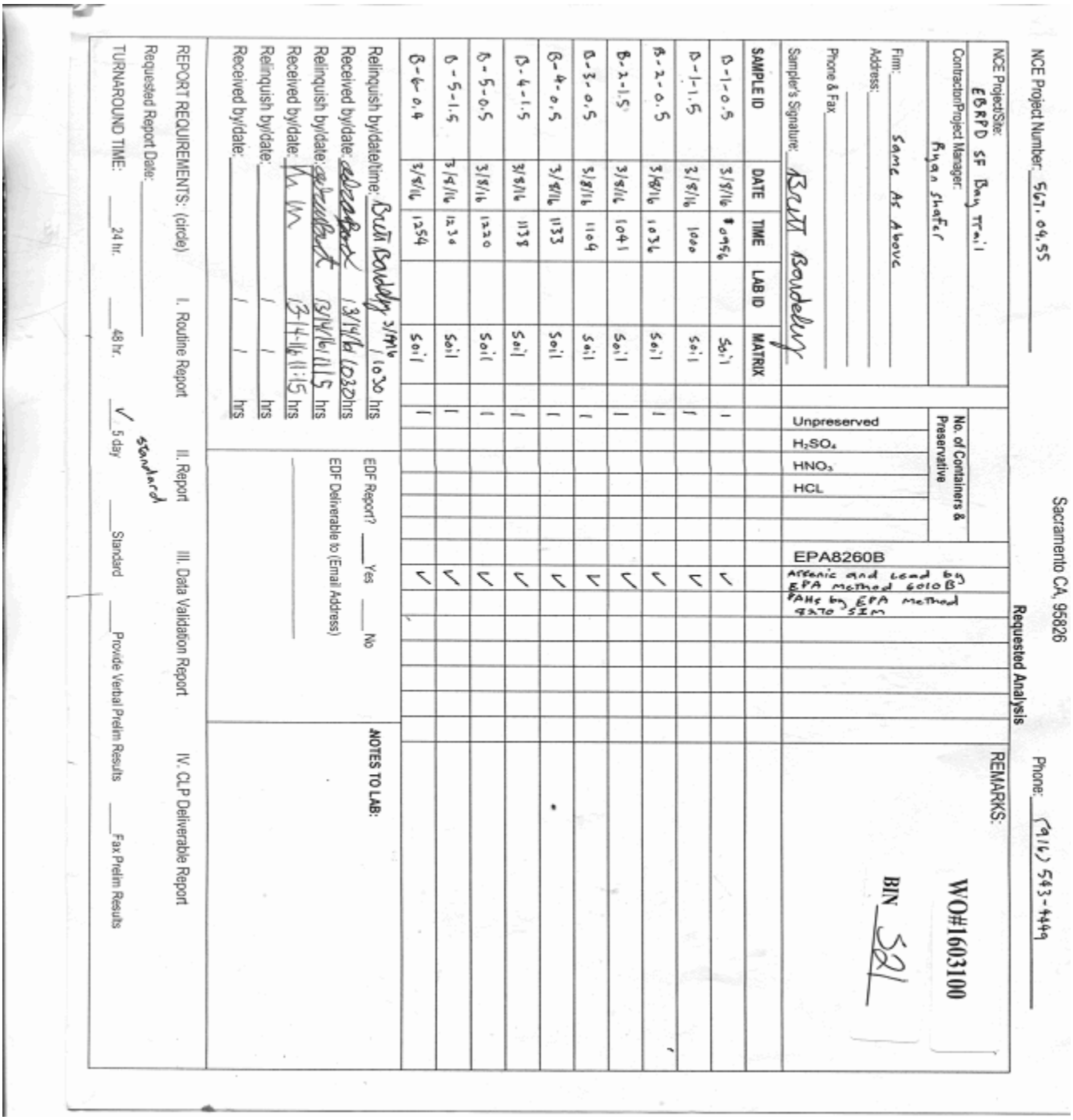
# Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE<br>8795 Folsom Boulevard, Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | Port of Richmond (Shipyard No. 3)<br>H1-141124<br>Brett Bardsley | Date Reported:<br>03/23/16 11:11 |



NCE Project Number: 567.04.55

NCE Project/Site: EBRPD SF Bay Trail

Contractor/Project Manager: Ryan Shafer

Firm: Same As Above

Address:

Phone & Fax

Sampler's Signature: Brett Bardsley

Sacramento CA, 95826

Phone: (916) 543-4449

Requested Analysis

REMARKS: WO#1603100 BIN 521

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic and Lead by EPA Method 6010B | PAHs by EPA Method 8270 SIM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1-0.5 | 3/8/16 | 0956 | | Soil | 1 | | | | ✓ | | |
| B-1-1.5 | 3/8/16 | 1000 | | Soil | 1 | | | | ✓ | | |
| B-2-0.5 | 3/8/16 | 1036 | | Soil | 1 | | | | ✓ | | |
| B-2-1.5 | 3/8/16 | 1041 | | Soil | 1 | | | | ✓ | | |
| B-3-0.5 | 3/8/16 | 1109 | | Soil | 1 | | | | ✓ | | |
| B-4-0.5 | 3/8/16 | 1133 | | Soil | 1 | | | | ✓ | | |
| B-4-1.5 | 3/8/16 | 1138 | | Soil | 1 | | | | ✓ | | |
| B-5-0.5 | 3/8/16 | 1220 | | Soil | 1 | | | | ✓ | | |
| B-5-1.5 | 3/8/16 | 1230 | | Soil | 1 | | | | ✓ | | |
| B-6-0.4 | 3/8/16 | 1254 | | Soil | 1 | | | | ✓ | | |

Relinquish by/date/time: Brett Bardsley 3/9/16 1030 hrs

Received by/date: [illegible] 3/9/16 1030hrs

Relinquish by/date: [illegible] 3/9/16 1115 hrs

Received by/date: [illegible] 3/9/16 11:15 hrs

Relinquish by/date: / / hrs

Received by/date: / / hrs

EDF Report? ___Yes ___No

EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report III. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: ___24 hr. ___48 hr. ✓ 5 day Standard ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

Excelchem Environmental Lab.

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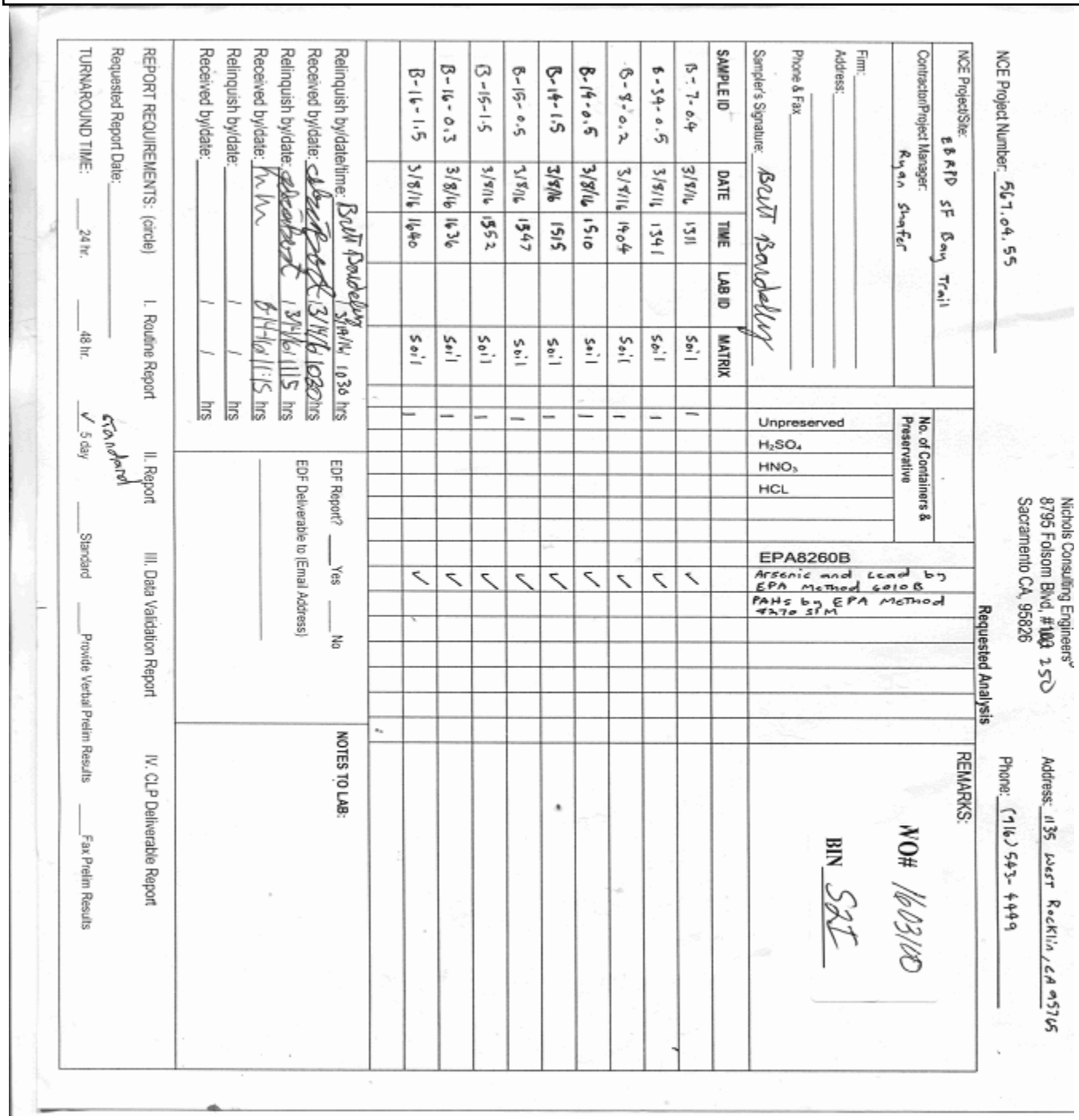
Laboratory Representative

# Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |



Nichols Consulting Engineers
8795 Folsom Blvd, #100, 250
Sacramento CA, 95826
Address: 1135 West Rocklin, CA 95765
Phone: (916) 543-4999

NCE Project Number: 567.04.55
NCE Project/Site: EBRD SF Bay Trail
Contractor/Project Manager: Ryan Shafer
Firm:
Address:
Phone & Fax:
Sampler's Signature: Brett Bardsley

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic and Lead by EPA Method 6010B | PAHs by EPA Method 8270 SIM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-7-0.4 | 3/9/16 | 1311 | | Soil | 1 | | | | | ✓ | |
| B-39-0.5 | 3/9/16 | 1341 | | Soil | 1 | | | | | ✓ | |
| B-8-0.2 | 3/9/16 | 1404 | | Soil | 1 | | | | | ✓ | |
| B-14-0.5 | 3/8/16 | 1510 | | Soil | 1 | | | | | ✓ | |
| B-14-1.5 | 3/8/16 | 1515 | | Soil | 1 | | | | | ✓ | |
| B-15-0.5 | 3/8/16 | 1347 | | Soil | 1 | | | | | ✓ | |
| B-15-1.5 | 3/9/16 | 1552 | | Soil | 1 | | | | | ✓ | |
| B-16-0.3 | 3/8/16 | 1436 | | Soil | 1 | | | | | ✓ | |
| B-16-1.5 | 3/8/16 | 1440 | | Soil | 1 | | | | | ✓ | |

REMARKS:
NO# 160300
BIN SAT

Relinquish by/date/time: Brett Bardsley 3/9/16 1836 hrs
Received by/date: [illegible] 3/9/16 1836 hrs
Relinquish by/date: [illegible] 3/9/16 2115 hrs
Received by/date: [illegible] 3/9/16 2115 hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report
Requested Report Date:
TURNAROUND TIME: ___24 hr. ___48 hr. ✓ 5 day ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

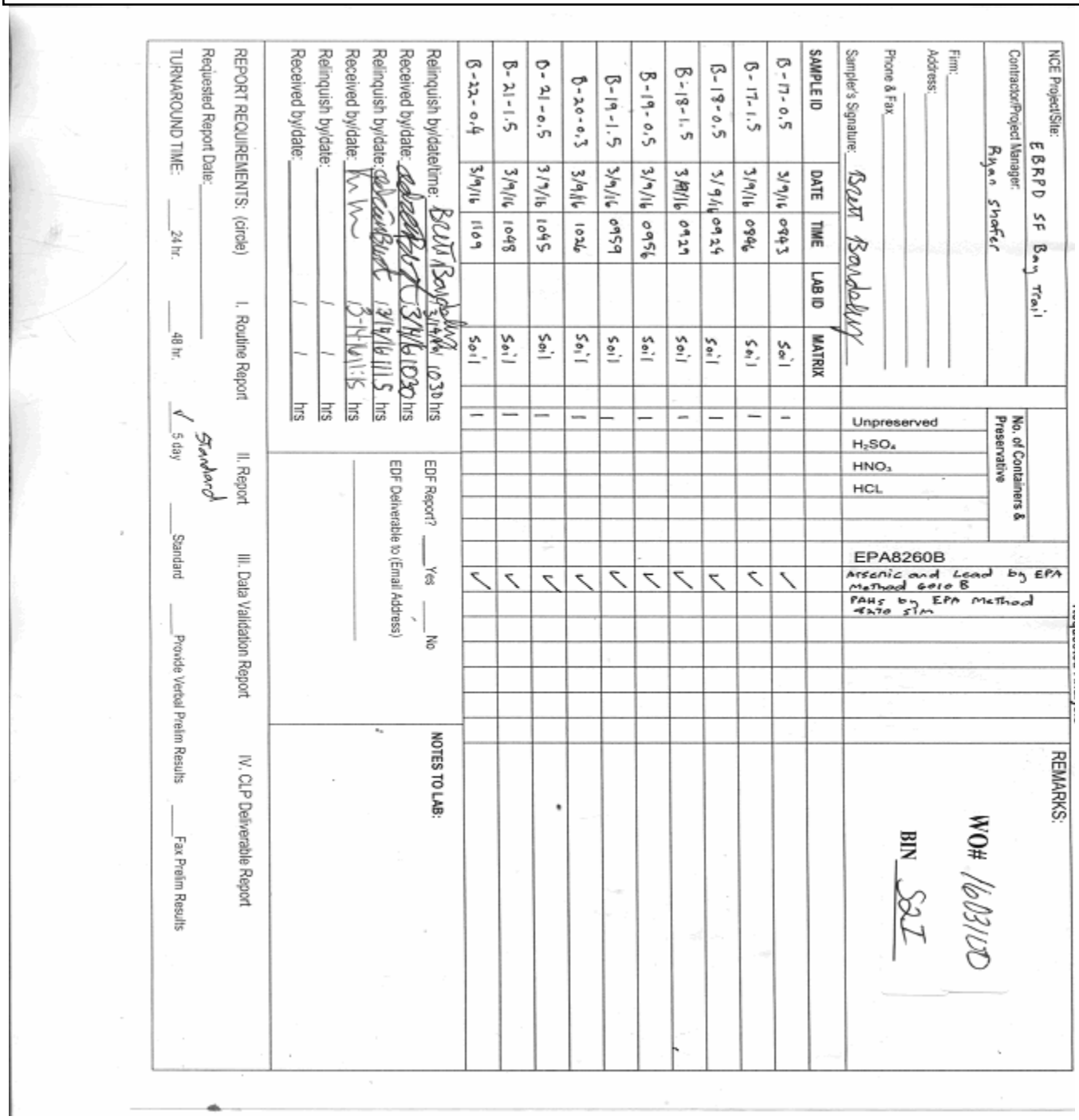
Excelchem Environmental Lab.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |



NCE Project/Site: EBRPD SF Bay Trail
Contractor/Project Manager: Ryan Shafer
Firm:
Address:
Phone & Fax:
Sampler's Signature: Brett Bardsley

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic and Lead by EPA Method 6010 B | PAHs by EPA Method 8270 SIM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-17-0.5 | 3/9/16 | 0943 | | Soil | 1 | | | | | ✓ | |
| B-17-1.5 | 3/9/16 | 0946 | | Soil | 1 | | | | | ✓ | |
| B-18-0.5 | 3/9/16 | 0924 | | Soil | 1 | | | | | ✓ | |
| B-18-1.5 | 3/9/16 | 0927 | | Soil | 1 | | | | | ✓ | |
| B-19-0.5 | 3/9/16 | 0956 | | Soil | 1 | | | | | ✓ | |
| B-19-1.5 | 3/9/16 | 0959 | | Soil | 1 | | | | | ✓ | |
| B-20-0.3 | 3/9/16 | 1026 | | Soil | 1 | | | | | ✓ | |
| B-21-0.5 | 3/9/16 | 1045 | | Soil | 1 | | | | | ✓ | |
| B-21-1.5 | 3/9/16 | 1048 | | Soil | 1 | | | | | ✓ | |
| B-22-0.4 | 3/9/16 | 1109 | | Soil | 1 | | | | | ✓ | |

REMARKS:
WO# 160310
BIN S2Z

Relinquish by/date/time: Brett Bardsley 3/14/16 1038 hrs
Received by/date: [illegible] 3/14/16 1038 hrs
Relinquish by/date: [illegible] 3/14/16 1115 hrs
Received by/date: [illegible] 3-14-16 1115 hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs

EDF Report? ___Yes ___No
EDF Deliverable to (Email Address):

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III: Data Validation Report IV. CLP Deliverable Report
Requested Report Date:
TURNAROUND TIME: ___24 hr. ___48 hr. ✓ 5 day Standard ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

Excelchem Environmental Lab.

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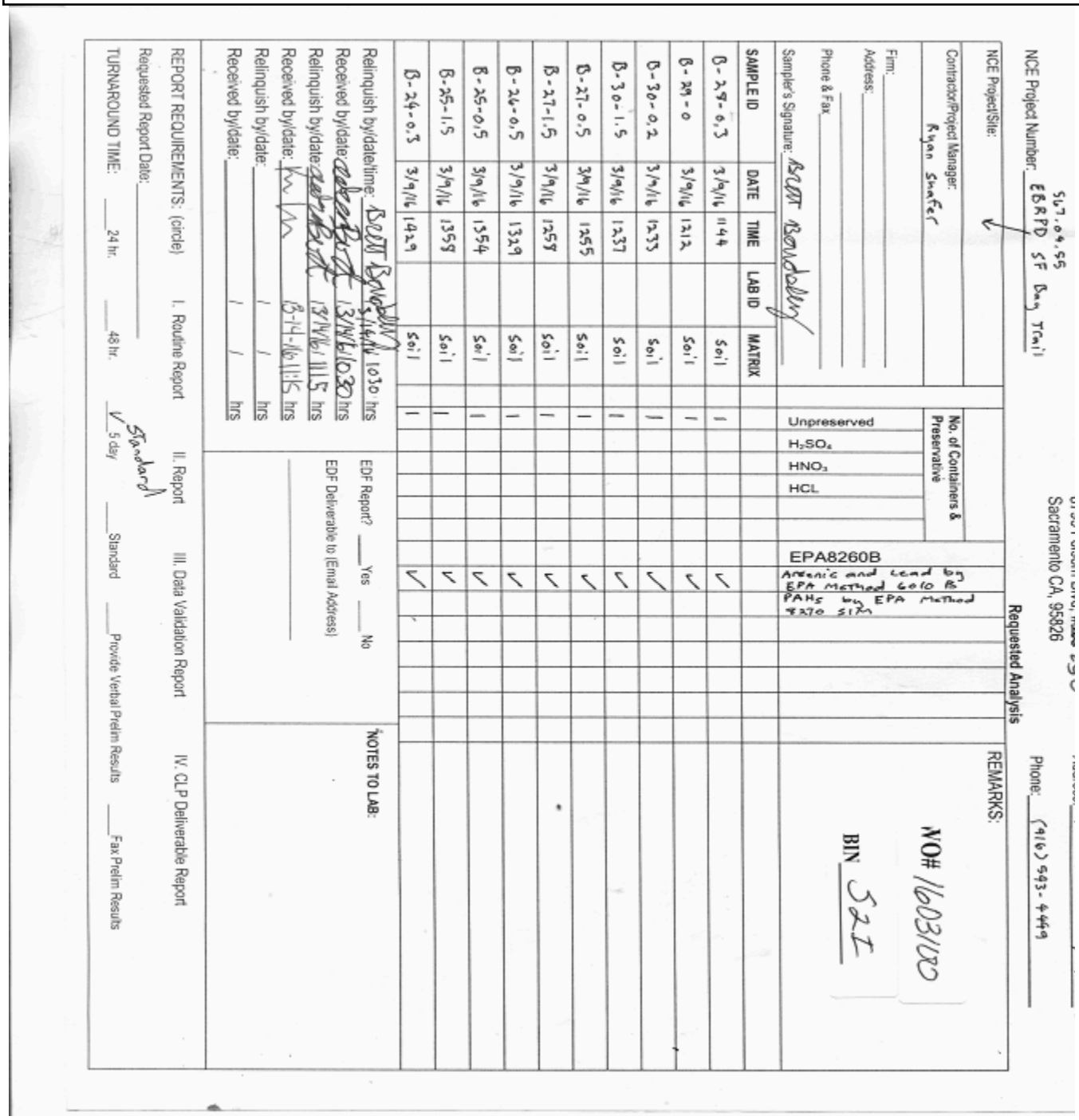
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE<br>8795 Folsom Boulevard, Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | Port of Richmond (Shipyard No. 3)<br>H1-141124<br>Brett Bardsley | Date Reported:<br>03/23/16 11:11 |



NCE Project/Site: 567.09.55 EBRPD SF Bay Trail

NCE Project Number: EBRPD SF Bay Trail

Contractor/Project Manager: Ryan Shafer

Firm:

Address:

Phone & Fax:

Sampler's Signature: Scott Bardsley

Sacramento CA, 95826

Phone: (916) 593-4499

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic and Lead by EPA Method 6010 B | PAHs by EPA Method 8270 SIM | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-29-0.3 | 3/9/16 | 1144 | | Soil | 1 | | | | ✓ | ✓ | ✓ | WO# 160318 |
| B-29-0 | 3/9/16 | 1212 | | Soil | 1 | | | | ✓ | ✓ | ✓ | BIN 521 |
| B-30-0.2 | 3/9/16 | 1233 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-30-1.5 | 3/9/16 | 1237 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-27-0.5 | 3/9/16 | 1255 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-27-1.5 | 3/9/16 | 1257 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-26-0.5 | 3/9/16 | 1329 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-25-0.5 | 3/9/16 | 1354 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-25-1.5 | 3/9/16 | 1359 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |
| B-24-0.3 | 3/9/16 | 1429 | | Soil | 1 | | | | ✓ | ✓ | ✓ | |

Relinquish by/date/time: Scott Bardsley 3/14/16 1030 hrs

Received by/date: [illegible] 3/14/16 1030 hrs

Relinquish by/date: [illegible] 3/14/16 1115 hrs

Received by/date: [illegible] 3/14/16 1115 hrs

Relinquish by/date: / / hrs

Received by/date: / / hrs

NOTES TO LAB:

EDF Report? ___ Yes ___ No

EDF Deliverable to (Email Address):

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: ___ 24 hr. ___ 48 hr. ✓ 5 day Standard ___ Standard ___ Provide Verbal Prelim Results ___ Fax Prelim Results

Excelchem Environmental Lab.

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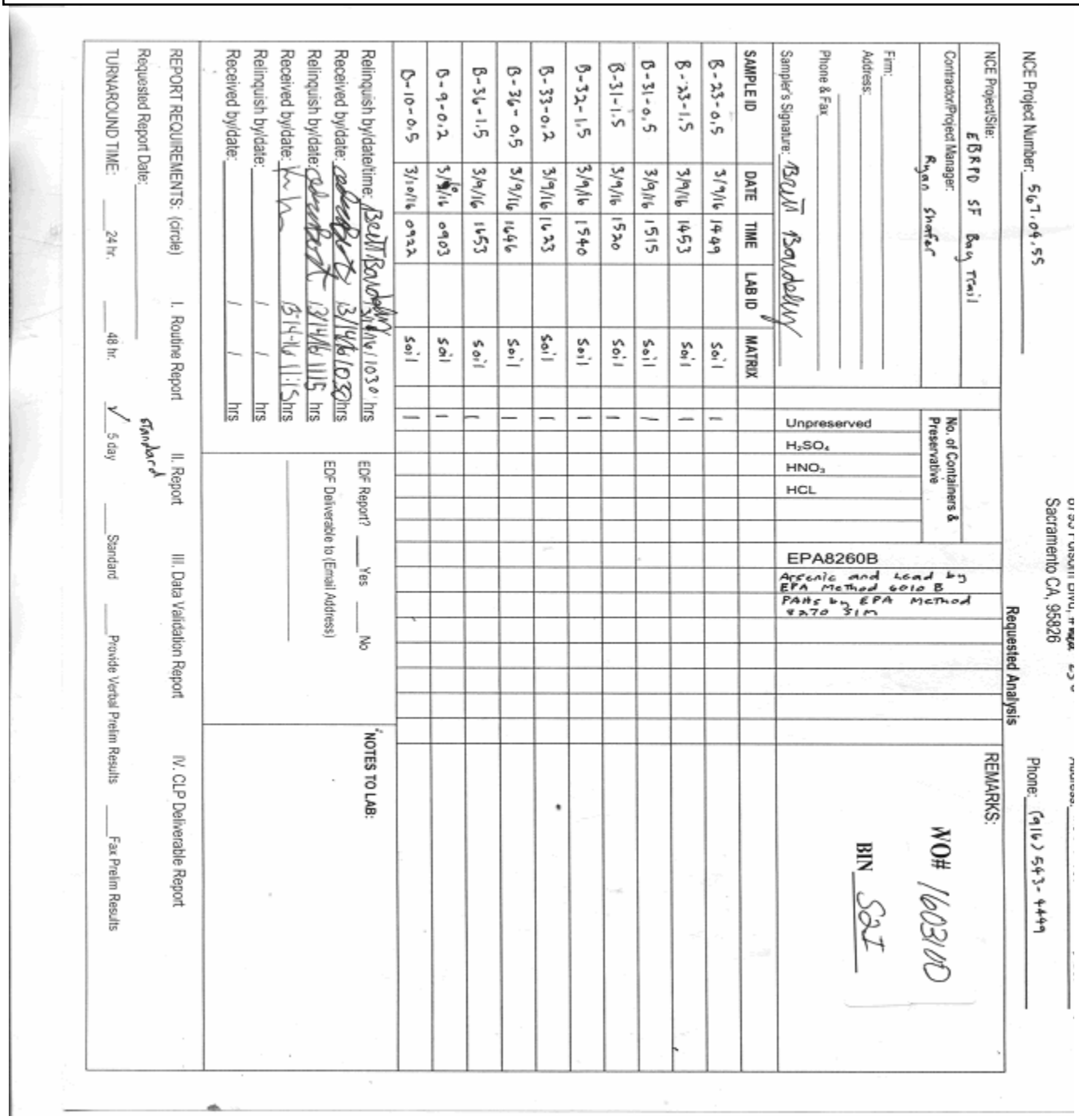
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE<br>8795 Folsom Boulevard, Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | Port of Richmond (Shipyard No. 3)<br>H1-141124<br>Brett Bardsley | Date Reported:<br>03/23/16 11:11 |



NCE Project Number: 567.04.55

NCE Project/Site: EBRD SF Bay Trail

Contractor/Project Manager: Ryan Shafer

Firm:

Address:

Phone & Fax:

Sampler's Signature: Brett Bardsley

Sacramento CA, 95826

Phone: (916) 543-4444

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic and Lead by EPA Method 6010 B | PAHs by EPA Method 8270 SIM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-23-0.5 | 3/9/16 | 1449 | | Soil | 1 | | | | | | |
| B-23-1.5 | 3/9/16 | 1453 | | Soil | 1 | | | | | | |
| B-31-0.5 | 3/9/16 | 1515 | | Soil | 1 | | | | | | |
| B-31-1.5 | 3/9/16 | 1520 | | Soil | 1 | | | | | | |
| B-32-1.5 | 3/9/16 | 1540 | | Soil | 1 | | | | | | |
| B-33-0.2 | 3/9/16 | 1623 | | Soil | 1 | | | | | | |
| B-36-0.5 | 3/9/16 | 1446 | | Soil | 1 | | | | | | |
| B-36-1.5 | 3/9/16 | 1453 | | Soil | 1 | | | | | | |
| B-9-0.2 | 3/9/16 | 0903 | | Soil | 1 | | | | | | |
| B-10-0.5 | 3/10/16 | 0922 | | Soil | 1 | | | | | | |

REMARKS:

WO# 160310

BIN SAT

Relinquish by/date/time: Brett Bardsley 3/10/16 1030 hrs

Received by/date:

Relinquish by/date: 3/14/16 1115 hrs

Received by/date:

Relinquish by/date: 3/14/16 1115 hrs

Received by/date: / / hrs

NOTES TO LAB:

EDF Report? ___ Yes ___ No

EDF Deliverable to (Email Address)

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: ___24 hr. ___48 hr. ✓ 5 day Standard ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

Excelchem Environmental Lab.

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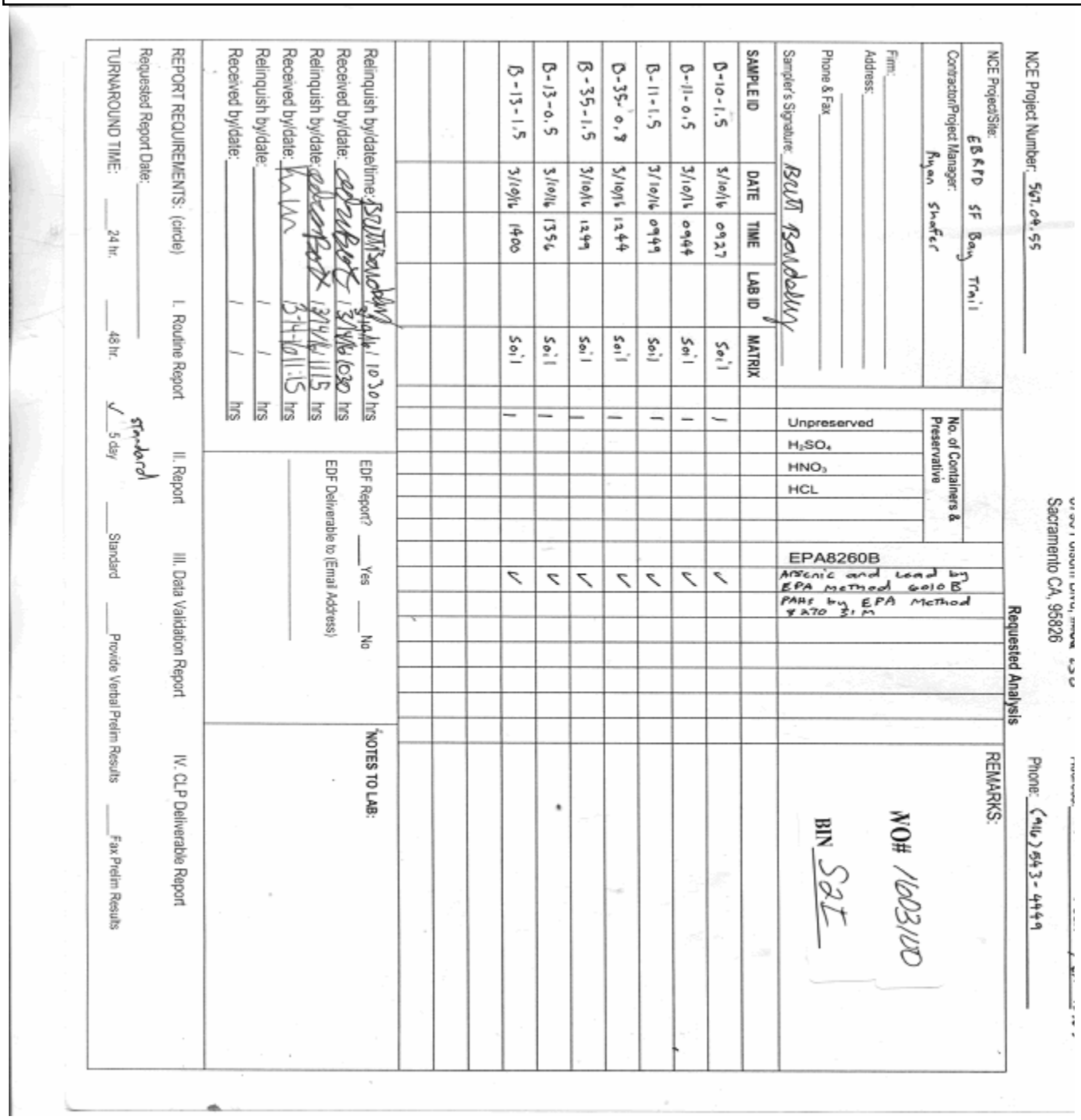
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |



NCE Project Number: 567.09.55

NCE Project/Site: EBRPD SF Bay Trail

Contractor/Project Manager: Ryan Shafer

Firm:

Address:

Phone & Fax:

Sampler's Signature: Brett Bardsley

Sacramento CA, 95826

Phone: (916) 894-4999

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic and Lead by EPA Method 6010 | PAHs by EPA Method 8270 SIM | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-10-1.5 | 3/10/16 | 0927 | | Soil | 1 | | | | ✓ | ✓ | | WO# 1603110 |
| B-11-0.5 | 3/10/16 | 0944 | | Soil | 1 | | | | ✓ | ✓ | | BIN Sat |
| B-11-1.5 | 3/10/16 | 0949 | | Soil | 1 | | | | ✓ | ✓ | | |
| B-35-0.5 | 3/10/16 | 1244 | | Soil | 1 | | | | ✓ | ✓ | | |
| B-35-1.5 | 3/10/16 | 1249 | | Soil | 1 | | | | ✓ | ✓ | | |
| B-13-0.5 | 3/10/16 | 1356 | | Soil | 1 | | | | ✓ | ✓ | | |
| B-13-1.5 | 3/10/16 | 1400 | | Soil | 1 | | | | ✓ | ✓ | | |

Relinquish by/date/time: Brett Bardsley 3/10/16 1630 hrs

Received by/date: [illegible] 3/10/16 1630 hrs

Relinquish by/date: [illegible] 3/10/16 1715 hrs

Received by/date: [illegible] 3-10-16 1715 hrs

Relinquish by/date: _____ hrs

Received by/date: _____ hrs

EDF Report? ___ Yes ___ No

EDF Deliverable to (Email Address):

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: ___ 24 hr. ___ 48 hr. ✓ 5 day Standard ___ Standard ___ Provide Verbal Prelim Results ___ Fax Prelim Results

Excelchem Environmental Lab.

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Laboratory Representative

| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

## Sample Integrity

## WORK ORDER _1603100

Date Received: 3/14/16

**Section 1 – Sample Arrival Info.**

Sample Transport: ONTRAC UPS USPS *Walk-In* EXCELCHEM Courier Fed-Ex Other:____

Transported In: *Ice Chest* Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / C

Temperature of Samples (°C): 9 Ice Chest Temperature(s) (°C): 5

**Section 2 – Bottle/Analysis Info.**

| | Yes | No | N/A | Comments |
|---|---|---|---|---|
| Did all bottles arrive unbroken and intact? | X | | | |
| Did all bottle labels agree with COC? | | X | | SEE EMAIL BELOW |
| Were correct containers used for the tests requested? | X | | | |
| Were correct preservations used for the tests requested? | | | X | |
| Was a sufficient amount of sample sent for tests indicated? | X | | | |
| Were bubbles present in VOA Vials?: **(Volatile Methods Only)** | | | X | |

**Section 3 – Summa/Flow regulator Info.**

***Used Summa#:***

**Unused Summa#:**

**Cleaning Summa#:**

**Regulator#:**

N/A

Was there any visual damage to summa canisters **or** flow regulators? **Explain.**

**Section 4 – COC Info.**

| | Completed Yes | Completed No | Info From Container | | Completed Yes | Completed No | Comments |
|---|---|---|---|---|---|---|---|
| Was COC Received | X | | | Analysis Requested | X | X | Missing on pg. 5 - |
| Date Sampled | X | | | Samples arrived within holding time | X | | |
| Time Sampled | X | | | Any hold times less than 72 hrs | | X | |
| Sample ID | X | | | Client Name | X | | |
| Rush TAT | | X | | Address/Telephone # | X | | |

**Section 5 – Comments / Discrepancies**

Was Client notified of discrepancies: Yes No *N/A* Notified by: Mindy Somers

Explanations / Comments:

**Please see email attached scanned and attached**

Samples Labeled by: *MS*
Bin #s: S21
COC Scanned/Attached by: *MS*
Sample labels reviewed by: MS

**Filled Out by:** Mindy Somers **Date:** 3/14/16 **Time:** 17:50

Excelchem Environmental Lab.

Laboratory Representative

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| | | | |
|---|---|---|---|
| NCE | Project: | Port of Richmond (Shipyard No. 3) | |
| 8795 Folsom Boulevard, Suite 250 | Project Number: | H1-141124 | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Brett Bardsley | 03/23/16 11:11 |

**Front Desk**

**From:** Brett Bardsley <BBardsley@ncenet.com>
**Sent:** Tuesday, March 15, 2016 10:11 AM
**To:** Front Desk
**Subject:** RE: Project issues with samples

Hi Mindy,

Thank you for checking the samples. Please do the following:

- Add B-3-1.5 to the chain of custody and analyzed it for total arsenic and total lead.
- Make the sample that had the pen markings smeared off B-17-0.5.
- Analyze the samples on Page 5 for total arsenic and total lead.

Regards,

NCE
**Brett Bardsley, P.G.**
**Senior Geologist**
**p** (916) 388-5655
**f** (916) 388-5676 **e** bbardsley@ncenet.com
**NCE**
8795 Folsom Blvd., Suite 250, Sacramento, CA 95826
www.ncenet.com
***Collaboration. Commitment. Confidence.***SM

**From:** Front Desk [mailto:FrontDesk@excelchem.net]
**Sent:** Monday, March 14, 2016 7:46 PM
**To:** Brett Bardsley
**Subject:** Project issues with samples

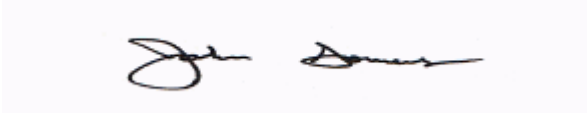
Hello Mr. Bardsley,
Your samples are all logged in but we have a couple concerns that we need help with fixing.

1) Received Sample B-3-1.5 @ 11:12 hours but this is not on the chain of custody. Do you want us to add it arsenic and lead?
2) Sample B-17-0.5 @ 8:43 (Page 3 at the top) we do not see a sample for this. With that said see below.
3) Received a sample with no information on it. The pen markings have smeared off. Do see markings of a date 03/09/11. If I look real hard I can see an 084 marking as well.
4) Is it possible this sample is B-17-0.5?
5) Page 5 does not have any metals checked. Do you want these analyzed for the arsenic and lead.

Thank you,
Mindy Somers
Excelchem Environmental Lab
1135 West Sunset Blvd., Suite A

1

Excelchem Environmental Lab.



Laboratory Representative

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# EXCELCHEM
## Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449


**ELAP Certificate No. : 2119**

28 June 2016

Ryan Shafer

Nichols Consulting Engineers

8795 Folsom Blvd., Suite 250

Sacramento, CA 95826

RE: EBRPD SF Bay Trail

Work order number:1606006

Enclosed are the results of analyses for samples received by the laboratory on 06/01/16 14:54. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

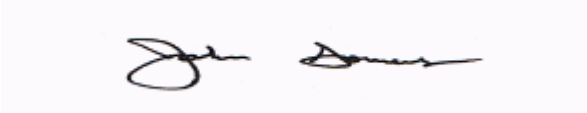
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| B-36B-0 | 1606006-01 | Soil | 05/31/16 09:50 | 06/01/16 14:54 |
| B-36B-1.5 | 1606006-02 | Soil | 05/31/16 09:51 | 06/01/16 14:54 |
| B-36A-0 | 1606006-03 | Soil | 05/31/16 09:53 | 06/01/16 14:54 |
| B-36A-1.5 | 1606006-04 | Soil | 05/31/16 09:55 | 06/01/16 14:54 |
| B-37B-0 | 1606006-05 | Soil | 05/31/16 10:10 | 06/01/16 14:54 |
| B-37B-1.5 | 1606006-06 | Soil | 05/31/16 10:11 | 06/01/16 14:54 |
| B-37C-0 | 1606006-07 | Soil | 05/31/16 10:16 | 06/01/16 14:54 |
| B-37C-1.5 | 1606006-08 | Soil | 05/31/16 10:18 | 06/01/16 14:54 |
| B-37A-0 | 1606006-09 | Soil | 05/31/16 10:21 | 06/01/16 14:54 |
| B-37A-1.5 | 1606006-10 | Soil | 05/31/16 10:22 | 06/01/16 14:54 |
| B-33B-0 | 1606006-11 | Soil | 05/31/16 10:30 | 06/01/16 14:54 |
| B-33B-1.5 | 1606006-12 | Soil | 05/31/16 10:32 | 06/01/16 14:54 |
| B-33A-0.2 | 1606006-13 | Soil | 05/31/16 10:34 | 06/01/16 14:54 |
| B-33A-1.5 | 1606006-14 | Soil | 05/31/16 10:36 | 06/01/16 14:54 |
| B-38C-0.5 | 1606006-15 | Soil | 05/31/16 10:48 | 06/01/16 14:54 |
| B-38C-1.5 | 1606006-16 | Soil | 05/31/16 10:50 | 06/01/16 14:54 |
| B-38B-0.2 | 1606006-17 | Soil | 05/31/16 10:58 | 06/01/16 14:54 |
| B-38B-1.5 | 1606006-18 | Soil | 05/31/16 11:00 | 06/01/16 14:54 |
| B-38A-0.5 | 1606006-19 | Soil | 05/31/16 11:03 | 06/01/16 14:54 |
| B-38A-1.5 | 1606006-20 | Soil | 05/31/16 11:05 | 06/01/16 14:54 |
| B-39C-0 | 1606006-21 | Soil | 05/31/16 11:14 | 06/01/16 14:54 |
| B-39C-1.5 | 1606006-22 | Soil | 05/31/16 11:15 | 06/01/16 14:54 |
| B-39B-0 | 1606006-23 | Soil | 05/31/16 11:16 | 06/01/16 14:54 |
| B-39B-1.5 | 1606006-24 | Soil | 05/31/16 11:18 | 06/01/16 14:54 |
| B-39A-0 | 1606006-25 | Soil | 05/31/16 11:21 | 06/01/16 14:54 |
| B-39A-1.5 | 1606006-26 | Soil | 05/31/16 11:22 | 06/01/16 14:54 |
| B-40C-0.2 | 1606006-27 | Soil | 05/31/16 11:45 | 06/01/16 14:54 |
| B-40C-1.5 | 1606006-28 | Soil | 05/31/16 11:46 | 06/01/16 14:54 |
| B-40B-0.2 | 1606006-29 | Soil | 05/31/16 11:48 | 06/01/16 14:54 |

Excelchem Environmental Lab.



Laboratory Representative

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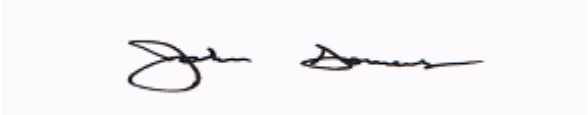
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| B-40B-1.5 | 1606006-30 | Soil | 05/31/16 11:49 | 06/01/16 14:54 |
| B-40A-0.2 | 1606006-31 | Soil | 05/31/16 11:53 | 06/01/16 14:54 |
| B-40A-1.5 | 1606006-32 | Soil | 05/31/16 11:54 | 06/01/16 14:54 |
| B-17B-0.4 | 1606006-33 | Soil | 05/31/16 11:59 | 06/01/16 14:54 |
| B-17B-1.5 | 1606006-34 | Soil | 05/31/16 12:00 | 06/01/16 14:54 |
| B-17A-0.4 | 1606006-35 | Soil | 05/31/16 12:02 | 06/01/16 14:54 |
| B-17A-1.5 | 1606006-36 | Soil | 05/31/16 12:04 | 06/01/16 14:54 |
| B-16B-0 | 1606006-37 | Soil | 05/31/16 12:09 | 06/01/16 14:54 |
| B-16B-1.5 | 1606006-38 | Soil | 05/31/16 12:10 | 06/01/16 14:54 |
| B-16A-0 | 1606006-39 | Soil | 05/31/16 12:15 | 06/01/16 14:54 |
| B-16A-1.5 | 1606006-40 | Soil | 05/31/16 12:17 | 06/01/16 14:54 |
| B-41C-0 | 1606006-41 | Soil | 05/31/16 12:20 | 06/01/16 14:54 |
| B-41C-1.5 | 1606006-42 | Soil | 05/31/16 12:21 | 06/01/16 14:54 |
| B-41B-0 | 1606006-43 | Soil | 05/31/16 12:24 | 06/01/16 14:54 |
| B-41B-1.5 | 1606006-44 | Soil | 05/31/16 12:26 | 06/01/16 14:54 |
| B-41A-0 | 1606006-45 | Soil | 05/31/16 12:28 | 06/01/16 14:54 |
| B-41A-1.5 | 1606006-46 | Soil | 05/31/16 12:29 | 06/01/16 14:54 |
| B-15B-0 | 1606006-47 | Soil | 05/31/16 12:32 | 06/01/16 14:54 |
| B-15B-1.5 | 1606006-48 | Soil | 05/31/16 12:33 | 06/01/16 14:54 |
| B-15A-0 | 1606006-49 | Soil | 05/31/16 12:40 | 06/01/16 14:54 |
| B-15A-1.5 | 1606006-50 | Soil | 05/31/16 12:42 | 06/01/16 14:54 |
| B-43A-0 | 1606006-51 | Soil | 05/31/16 13:15 | 06/01/16 14:54 |
| B-43A-1.5 | 1606006-52 | Soil | 05/31/16 13:16 | 06/01/16 14:54 |
| B-43B-0 | 1606006-53 | Soil | 05/31/16 13:19 | 06/01/16 14:54 |
| B-43A-1.5 | 1606006-54 | Soil | 05/31/16 13:21 | 06/01/16 14:54 |
| B-43C-0 | 1606006-55 | Soil | 05/31/16 13:25 | 06/01/16 14:54 |
| B-43C-1.5 | 1606006-56 | Soil | 05/31/16 13:27 | 06/01/16 14:54 |
| B-42A-0 | 1606006-57 | Soil | 05/31/16 13:35 | 06/01/16 14:54 |
| B-42A-1.5 | 1606006-58 | Soil | 05/31/16 13:37 | 06/01/16 14:54 |

Excelchem Environmental Lab.



Laboratory Representative

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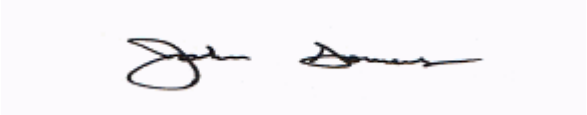
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| B-42B-0 | 1606006-59 | Soil | 05/31/16 13:38 | 06/01/16 14:54 |
| B-42B-1.5 | 1606006-60 | Soil | 05/31/16 13:40 | 06/01/16 14:54 |
| B-42C-0 | 1606006-61 | Soil | 05/31/16 13:42 | 06/01/16 14:54 |
| B-42C-1.5 | 1606006-62 | Soil | 05/31/16 13:43 | 06/01/16 14:54 |
| B-47C-0 | 1606006-63 | Soil | 05/31/16 14:02 | 06/01/16 14:54 |
| B-47C-1.5 | 1606006-64 | Soil | 05/31/16 14:03 | 06/01/16 14:54 |
| B-47B-0 | 1606006-65 | Soil | 05/31/16 14:06 | 06/01/16 14:54 |
| B-47B-1.5 | 1606006-66 | Soil | 05/31/16 14:08 | 06/01/16 14:54 |
| B-47A-1.5 | 1606006-67 | Soil | 05/31/16 14:14 | 06/01/16 14:54 |
| B-11A-1.5 | 1606006-68 | Soil | 05/31/16 14:21 | 06/01/16 14:54 |
| B-11A-0.2 | 1606006-69 | Soil | 05/31/16 14:19 | 06/01/16 14:54 |
| B-47A-0 | 1606006-70 | Soil | 05/31/16 14:13 | 06/01/16 14:54 |
| B-11B-0 | 1606006-71 | Soil | 05/31/16 14:23 | 06/01/16 14:54 |
| B-11B-1.5 | 1606006-72 | Soil | 05/31/16 14:24 | 06/01/16 14:54 |
| B-46A-0 | 1606006-73 | Soil | 05/31/16 14:25 | 06/01/16 14:54 |
| B-46A-1.5 | 1606006-74 | Soil | 05/31/16 14:27 | 06/01/16 14:54 |
| B-46B-0 | 1606006-75 | Soil | 05/31/16 14:34 | 06/01/16 14:54 |
| B-46B-1.5 | 1606006-76 | Soil | 05/31/16 14:35 | 06/01/16 14:54 |
| B-46C-0 | 1606006-77 | Soil | 05/31/16 14:39 | 06/01/16 14:54 |
| B-46C-1.5 | 1606006-78 | Soil | 05/31/16 14:41 | 06/01/16 14:54 |
| B-45C-0.2 | 1606006-79 | Soil | 05/31/16 14:46 | 06/01/16 14:54 |
| B-45B-0 | 1606006-80 | Soil | 05/31/16 14:51 | 06/01/16 14:54 |
| B-45B-1.5 | 1606006-81 | Soil | 05/31/16 14:52 | 06/01/16 14:54 |
| B-45A-0 | 1606006-82 | Soil | 05/31/16 14:57 | 06/01/16 14:54 |
| B-45A-1.5 | 1606006-83 | Soil | 05/31/16 14:59 | 06/01/16 14:54 |
| B-44A-0.5 | 1606006-84 | Soil | 06/01/16 09:12 | 06/01/16 14:54 |
| B-44A-1.2 | 1606006-85 | Soil | 06/01/16 09:32 | 06/01/16 14:54 |
| B-44B-0.5 | 1606006-86 | Soil | 06/01/16 09:35 | 06/01/16 14:54 |
| B-44B-1 | 1606006-87 | Soil | 06/01/16 09:38 | 06/01/16 14:54 |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| B-44C-0.5 | 1606006-88 | Soil | 06/01/16 09:38 | 06/01/16 14:54 |
| B-44C-1.5 | 1606006-89 | Soil | 06/01/16 09:42 | 06/01/16 14:54 |
| B-35B-0.5 | 1606006-90 | Soil | 06/01/16 09:46 | 06/01/16 14:54 |
| B-35B-1.3 | 1606006-91 | Soil | 06/01/16 09:51 | 06/01/16 14:54 |
| B-35A-0.5 | 1606006-92 | Soil | 06/01/16 09:53 | 06/01/16 14:54 |
| B-35A-1 | 1606006-93 | Soil | 06/01/16 09:55 | 06/01/16 14:54 |

Excelchem Environmental Lab.

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## Excelchem Environmental Labs

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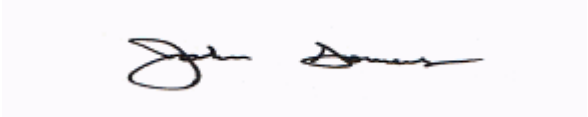
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-36B-0**

**1606006-01 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.4** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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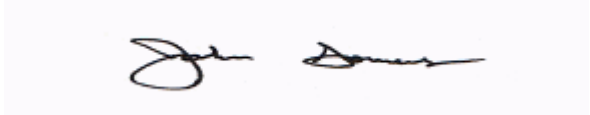
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-36B-1.5
### 1606006-02 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.



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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-36A-0**
**1606006-03 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.9** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-36A-1.5**

**1606006-04 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.4** | 2.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

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| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-37B-0**

**1606006-05 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.7** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-37B-1.5**

**1606006-06 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.5** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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Laboratory Representative

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| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-37C-0**

**1606006-07 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **SemiVolatile Organic Compounds by GC/MS** | | | | | | | | |
| Naphthalene | ND | 0.0250 | mg/kg | AZF0171 | 06/07/16 | 06/18/16 | EPA 8270 SIM | |
| Acenaphthylene | ND | 0.0250 | " | " | " | " | " | |
| Acenaphthene | ND | 0.0250 | " | " | " | " | " | |
| Fluorene | ND | 0.0250 | " | " | " | " | " | |
| Phenanthrene | ND | 0.0250 | " | " | " | " | " | |
| Anthracene | ND | 0.0250 | " | " | " | " | " | |
| Fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Pyrene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Chrysene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 0.0250 | " | " | " | " | " | |
| *Surrogate: Terphenyl-dl4* | *94.1 %* | % Recovery Limits | | *10-120* | | | *"* | |
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.5** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-37C-1.5
### 1606006-08 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.5** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-37A-0**
**1606006-09 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.6** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-37A-1.5**
**1606006-10 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.3** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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| | | | |
|---|---|---|---|
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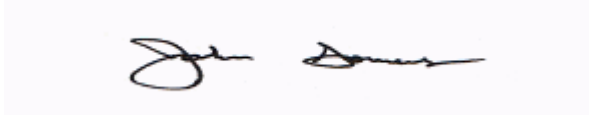
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-33B-0**
**1606006-11 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.9** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-33B-1.5**

**1606006-12 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.6** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-33A-0.2**
**1606006-13 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.9** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-33A-1.5**

**1606006-14 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.6** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

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Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-38C-0.5**

**1606006-15 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.2** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-38C-1.5
### 1606006-16 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.6** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

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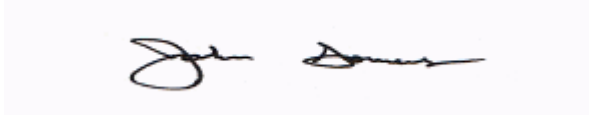
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-38B-0.2**
**1606006-17 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.4** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

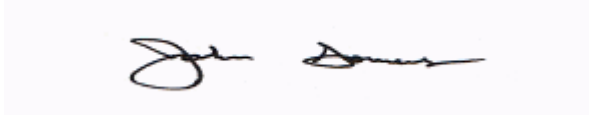
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-38B-1.5**

**1606006-18 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.4** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-38A-0.5**

**1606006-19 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.8** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-38A-1.5**

**1606006-20 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0170 | 06/13/16 | 06/16/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-39C-0**

**1606006-21 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.7** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/17/16 | EPA 6010B | |

Excelchem Environmental Lab.

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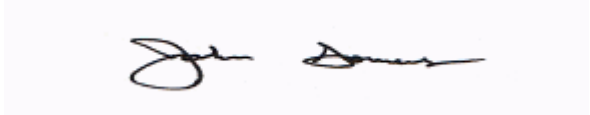
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-39C-1.5
### 1606006-22 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.8** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-39B-0**

**1606006-23 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **15.0** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

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## Excelchem Environmental Labs

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-39B-1.5**

**1606006-24 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **12.1** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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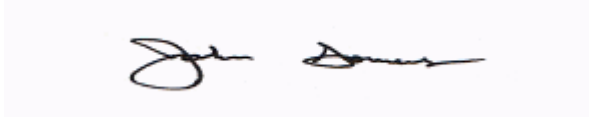
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-39A-0**
**1606006-25 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **43.3** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-39A-1.5**

**1606006-26 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **39.4** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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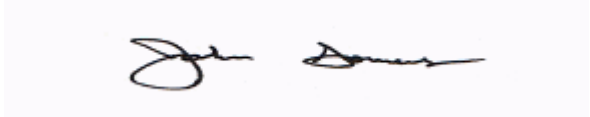
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-40C-0.2**

**1606006-27 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.4** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-40C-1.5**

**1606006-28 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.1** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-40B-0.2**

**1606006-29 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.4** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-40B-1.5**

**1606006-30 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| Arsenic | ND | 10.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-40A-0.2**
**1606006-31 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **1.6** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-40A-1.5**

**1606006-32 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.8** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-17B-0.4**

**1606006-33 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.9** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-17B-1.5**

**1606006-34 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.4** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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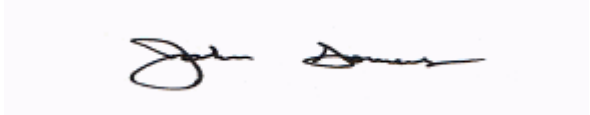
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-17A-0.4**
**1606006-35 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.



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## Excelchem Environmental Labs

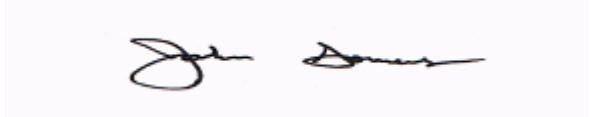
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-17A-1.5**

**1606006-36 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.1** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-16B-0**
**1606006-37 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **29.4** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

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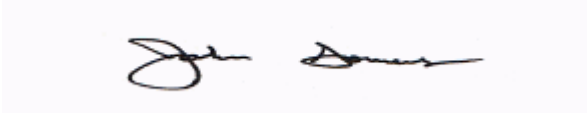
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-16B-1.5
### 1606006-38 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **23.3** | 1.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-16A-0**

**1606006-39 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.7** | 2.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-16A-1.5
### 1606006-40 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.3** | 2.0 | mg/kg | AZF0202 | 06/13/16 | 06/20/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

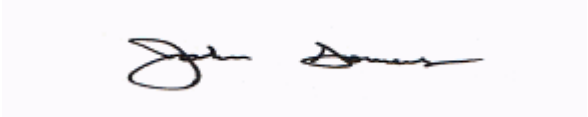
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-41C-0**

**1606006-41 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **36.2** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-41C-1.5
**1606006-42 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.3** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-41B-0**

**1606006-43 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.8** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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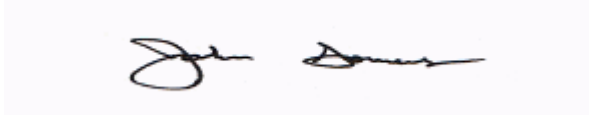
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-41B-1.5**

**1606006-44 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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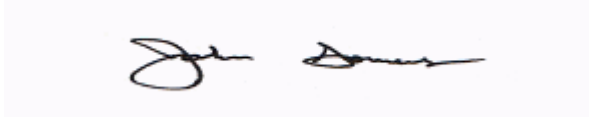
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-41A-0**
**1606006-45 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.3** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-41A-1.5**

**1606006-46 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.1** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

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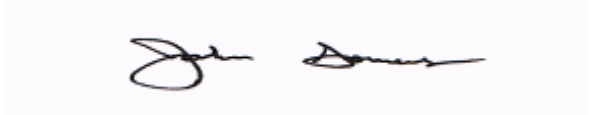
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-15B-0**

**1606006-47 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



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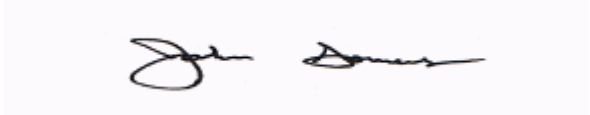
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-15B-1.5**

**1606006-48 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **9.9** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



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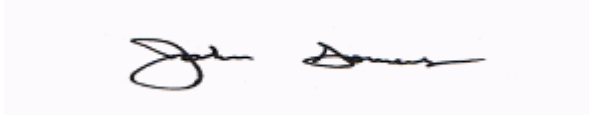
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-15A-0**

**1606006-49 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **8.9** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-15A-1.5
### 1606006-50 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **8.3** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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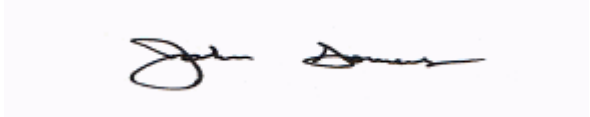
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-43A-0**
**1606006-51 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.6** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-43A-1.5**

**1606006-52 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.8** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-43B-0**

**1606006-53 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **SemiVolatile Organic Compounds by GC/MS** | | | | | | | | |
| Naphthalene | ND | 0.0250 | mg/kg | AZF0171 | 06/07/16 | 06/18/16 | EPA 8270 SIM | |
| Acenaphthylene | ND | 0.0250 | " | " | " | " | " | |
| Acenaphthene | ND | 0.0250 | " | " | " | " | " | |
| Fluorene | ND | 0.0250 | " | " | " | " | " | |
| **Phenanthrene** | **0.0873** | 0.0250 | " | " | " | " | " | |
| Anthracene | ND | 0.0250 | " | " | " | " | " | |
| **Fluoranthene** | **0.0943** | 0.0250 | " | " | " | " | " | |
| **Pyrene** | **0.0837** | 0.0250 | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Chrysene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 0.0250 | " | " | " | " | " | |
| *Surrogate: Terphenyl-dl4* | *107 %* | % Recovery Limits | | *10-120* | | | *"* | |
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.9** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.

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Laboratory Representative

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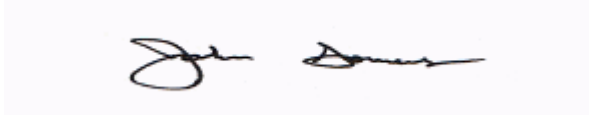
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-43A-1.5**

**1606006-54 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **10.7** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-43C-0**

**1606006-55 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.5** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-43C-1.5**

**1606006-56 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.0** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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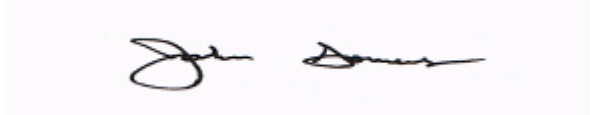
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-42A-0**
**1606006-57 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **9.3** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

Excelchem Environmental Lab.



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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-42A-1.5**
**1606006-58 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **12.1** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-42B-0**

**1606006-59 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **SemiVolatile Organic Compounds by GC/MS** | | | | | | | | |
| **Naphthalene** | **0.128** | 0.0250 | mg/kg | AZF0171 | 06/07/16 | 06/18/16 | EPA 8270 SIM | |
| **Acenaphthylene** | **0.204** | 0.0250 | " | " | " | " | " | |
| **Acenaphthene** | **0.0333** | 0.0250 | " | " | " | " | " | |
| **Fluorene** | **0.282** | 0.0250 | " | " | " | " | " | |
| **Phenanthrene** | **1.96** | 0.0250 | " | " | " | " | " | |
| **Anthracene** | **2.39** | 0.0250 | " | " | " | " | " | |
| **Fluoranthene** | **3.49** | 0.0250 | " | " | " | " | " | |
| **Pyrene** | **2.74** | 0.0250 | " | " | " | " | " | |
| **Benzo (a) anthracene** | **1.47** | 0.0250 | " | " | " | " | " | |
| **Chrysene** | **2.62** | 0.0250 | " | " | " | " | " | |
| **Benzo (b) fluoranthene** | **1.87** | 0.0250 | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| **Benzo (a) pyrene** | **1.23** | 0.0250 | " | " | " | " | " | |
| **Indeno (1,2,3-cd) pyrene** | **0.798** | 0.0250 | " | " | " | " | " | |
| **Dibenz (a,h) anthracene** | **0.283** | 0.0250 | " | " | " | " | " | |
| **Benzo (g,h,i) perylene** | **0.713** | 0.0250 | " | " | " | " | " | |
| *Surrogate: Terphenyl-dl4* | *92.9 %* | % Recovery Limits | | *10-120* | | | " | |
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **13.4** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

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| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-42B-1.5**

**1606006-60 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.0** | 1.0 | mg/kg | AZF0283 | 06/15/16 | 06/24/16 | EPA 6010B | |

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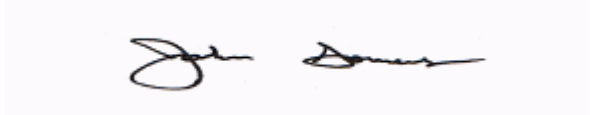
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-42C-0**

**1606006-61 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.9** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.



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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-42C-1.5**

**1606006-62 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.0** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

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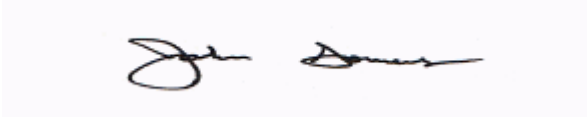
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-47C-0**

**1606006-63 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.



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## Excelchem Environmental Labs

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-47C-1.5**

**1606006-64 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.5** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-47B-0**

**1606006-65 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **SemiVolatile Organic Compounds by GC/MS** | | | | | | | | |
| Naphthalene | ND | 0.0250 | mg/kg | AZF0171 | 06/07/16 | 06/18/16 | EPA 8270 SIM | |
| Acenaphthylene | ND | 0.0250 | " | " | " | " | " | |
| Acenaphthene | ND | 0.0250 | " | " | " | " | " | |
| Fluorene | ND | 0.0250 | " | " | " | " | " | |
| Phenanthrene | ND | 0.0250 | " | " | " | " | " | |
| Anthracene | ND | 0.0250 | " | " | " | " | " | |
| Fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Pyrene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Chrysene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 0.0250 | " | " | " | " | " | |
| *Surrogate: Terphenyl-dl4* | *105 %* | % Recovery Limits | | *10-120* | | | *"* | |
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.4** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

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| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-47B-1.5**

**1606006-66 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.4** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-47A-1.5**

**1606006-67 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.2** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

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Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-11A-1.5**

**1606006-68 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.0** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-11A-0.2**

**1606006-69 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.4** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-47A-0**
**1606006-70 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.4** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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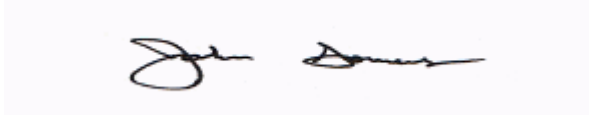
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-11B-0**
**1606006-71 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **16.2** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-11B-1.5**

**1606006-72 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **15.4** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-46A-0**
**1606006-73 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **5.2** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-46A-1.5**

**1606006-74 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.1** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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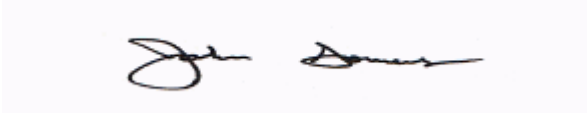
| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-46B-0**

**1606006-75 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **39.9** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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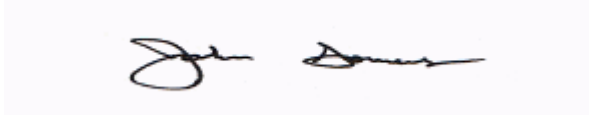
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-46B-1.5**

**1606006-76 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **13.6** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-46C-0**

**1606006-77 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.1** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-46C-1.5**

**1606006-78 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.3** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-45C-0.2**

**1606006-79 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **9.2** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-45B-0**

**1606006-80 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **SemiVolatile Organic Compounds by GC/MS** | | | | | | | | |
| Naphthalene | ND | 0.0250 | mg/kg | AZF0171 | 06/07/16 | 06/18/16 | EPA 8270 SIM | |
| Acenaphthylene | ND | 0.0250 | " | " | " | " | " | |
| Acenaphthene | ND | 0.0250 | " | " | " | " | " | |
| Fluorene | ND | 0.0250 | " | " | " | " | " | |
| Phenanthrene | ND | 0.0250 | " | " | " | " | " | |
| Anthracene | ND | 0.0250 | " | " | " | " | " | |
| Fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Pyrene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Chrysene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0250 | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.0250 | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 0.0250 | " | " | " | " | " | |
| *Surrogate: Terphenyl-dl4* | *95.6 %* | % Recovery Limits | | *10-120* | | | *"* | |
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **11.8** | 1.0 | mg/kg | AZF0284 | 06/16/16 | 06/25/16 | EPA 6010B | |

Excelchem Environmental Lab.

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-45B-1.5**

**1606006-81 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **10.4** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-45A-0**
**1606006-82 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **7.9** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-45A-1.5**

**1606006-83 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **4.2** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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## Excelchem Environmental Labs

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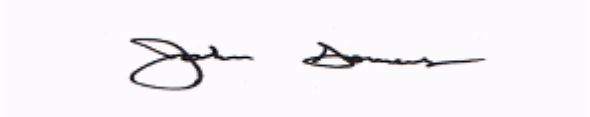
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-44A-0.5**
**1606006-84 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **6.4** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

Excelchem Environmental Lab.



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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-44A-1.2**

**1606006-85 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.7** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

Excelchem Environmental Lab.

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## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-44B-0.5**

**1606006-86 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.0** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

Excelchem Environmental Lab.

Laboratory Representative

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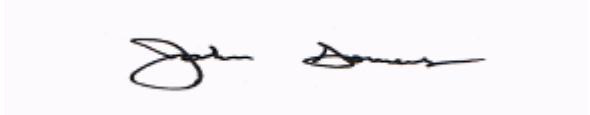
## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-44B-1**
**1606006-87 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.4** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

Excelchem Environmental Lab.



Laboratory Representative

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| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-44C-0.5**

**1606006-88 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **3.8** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### B-44C-1.5
### 1606006-89 (Soil)

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.9** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-35B-0.5**

**1606006-90 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **15.6** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-35B-1.3**
**1606006-91 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **28.4** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-35A-0.5**

**1606006-92 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.1** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**B-35A-1**
**1606006-93 (Soil)**

| Analyte | Result | Reporting Limit | Units | Batch | Date Prepared | Date Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|
| **Total Recoverable Metals** | | | | | | | | |
| **Arsenic** | **2.9** | 1.0 | mg/kg | AZF0237 | 06/16/16 | 06/22/16 | EPA 6010B | |

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| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

## SemiVolatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZF0171 - EPA 8270 SIM** | | | | | | | | | | |
| **Blank (AZF0171-BLK1)** | | | | Prepared: 06/07/16 Analyzed: 06/18/16 | | | | | | |
| *Surrogate: Terphenyl-dl4* | *1.92* | | *mg/kg* | *1.67* | | *115* | *10-120* | | | |
| Naphthalene | ND | 0.0250 | " | | | | | | | |
| Acenaphthylene | ND | 0.0250 | " | | | | | | | |
| Acenaphthene | ND | 0.0250 | " | | | | | | | |
| Fluorene | ND | 0.0250 | " | | | | | | | |
| Phenanthrene | ND | 0.0250 | " | | | | | | | |
| Anthracene | ND | 0.0250 | " | | | | | | | |
| Fluoranthene | ND | 0.0250 | " | | | | | | | |
| Pyrene | ND | 0.0250 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.0250 | " | | | | | | | |
| Chrysene | ND | 0.0250 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.0250 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.0250 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.0250 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0250 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.0250 | " | | | | | | | |
| Benzo (g,h,i) perylene | ND | 0.0250 | " | | | | | | | |
| **LCS (AZF0171-BS1)** | | | | Prepared: 06/22/16 Analyzed: 06/23/16 | | | | | | |
| *Surrogate: Terphenyl-dl4* | *1.93* | | *mg/kg* | *1.67* | | *116* | *10-120* | | | |
| Acenaphthylene | 1.48 | 0.0250 | " | 1.67 | | 88.6 | 20-125 | | | |
| Acenaphthene | 1.60 | 0.0250 | " | 1.67 | | 95.8 | 20-125 | | | |
| Pyrene | 1.75 | 0.0250 | " | 1.67 | | 105 | 20-125 | | | |
| Benzo (a) anthracene | 2.05 | 0.0250 | " | 1.67 | | 123 | 20-125 | | | |
| Benzo (b) fluoranthene | 1.98 | 0.0250 | " | 1.67 | | 119 | 20-125 | | | |
| Benzo (k) fluoranthene | 1.98 | 0.0250 | " | 1.67 | | 119 | 20-125 | | | |
| Benzo (a) pyrene | 1.89 | 0.0250 | " | 1.67 | | 113 | 20-125 | | | |
| Benzo (g,h,i) perylene | 2.01 | 0.0250 | " | 1.67 | | 121 | 20-125 | | | |

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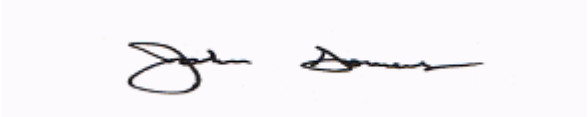

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

## SemiVolatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZF0171 - EPA 8270 SIM** | | | | | | | | | | |
| **LCS Dup (AZF0171-BSD1)** | | | | Prepared: 06/22/16 Analyzed: 06/23/16 | | | | | | |
| *Surrogate: Terphenyl-dl4* | *1.39* | | *mg/kg* | *1.67* | | *83.6* | *10-120* | | | |
| Acenaphthylene | 1.12 | 0.0250 | " | 1.67 | | 66.9 | 20-125 | 27.9 | 20 | QR-02 |
| Acenaphthene | 1.12 | 0.0250 | " | 1.67 | | 67.3 | 20-125 | 35.0 | 20 | QR-02 |
| Pyrene | 1.29 | 0.0250 | " | 1.67 | | 77.2 | 20-125 | 30.7 | 20 | QR-02 |
| Benzo (a) anthracene | 1.51 | 0.0250 | " | 1.67 | | 90.5 | 20-125 | 30.5 | 20 | QR-02 |
| Benzo (b) fluoranthene | 1.39 | 0.0250 | " | 1.67 | | 83.3 | 20-125 | 35.1 | 20 | QR-02 |
| Benzo (k) fluoranthene | 1.49 | 0.0250 | " | 1.67 | | 89.3 | 20-125 | 28.1 | 20 | QR-02 |
| Benzo (a) pyrene | 1.48 | 0.0250 | " | 1.67 | | 88.5 | 20-125 | 24.5 | 20 | QR-02 |
| Benzo (g,h,i) perylene | 2.20 | 0.0250 | " | 1.67 | | 132 | 20-125 | 9.02 | 20 | Z-01 |
| **Matrix Spike (AZF0171-MS1)** | | **Source: 1606006-53** | | Prepared: 06/22/16 Analyzed: 06/23/16 | | | | | | |
| *Surrogate: Terphenyl-dl4* | *1.71* | | *mg/kg* | *1.67* | | *102* | *10-120* | | | |
| Acenaphthylene | 1.59 | 0.0250 | " | 1.67 | ND | 95.4 | 20-125 | | | |
| Acenaphthene | 1.70 | 0.0250 | " | 1.67 | ND | 102 | 20-125 | | | |
| Pyrene | 2.11 | 0.0250 | " | 1.67 | 0.0837 | 122 | 20-125 | | | |
| Benzo (a) anthracene | 2.19 | 0.0250 | " | 1.67 | 0.0210 | 130 | 20-125 | | | QR-07 |
| Benzo (b) fluoranthene | 2.49 | 0.0250 | " | 1.67 | 0.0223 | 148 | 20-125 | | | QR-07 |
| Benzo (k) fluoranthene | 2.15 | 0.0250 | " | 1.67 | 0.0137 | 128 | 20-125 | | | QR-07 |
| Benzo (a) pyrene | 2.22 | 0.0250 | " | 1.67 | 0.0160 | 132 | 20-125 | | | QR-07 |
| Benzo (g,h,i) perylene | 1.74 | 0.0250 | " | 1.67 | 0.0200 | 103 | 20-125 | | | |
| **Matrix Spike Dup (AZF0171-MSD1)** | | **Source: 1606006-53** | | Prepared: 06/22/16 Analyzed: 06/23/16 | | | | | | |
| *Surrogate: Terphenyl-dl4* | *1.64* | | *mg/kg* | *1.67* | | *98.3* | *10-120* | | | |
| Acenaphthylene | 1.61 | 0.0250 | " | 1.67 | ND | 96.3 | 20-125 | 0.960 | 20 | |
| Acenaphthene | 1.66 | 0.0250 | " | 1.67 | ND | 99.8 | 20-125 | 2.02 | 20 | |
| Pyrene | 3.09 | 0.0250 | " | 1.67 | 0.0837 | 180 | 20-125 | 37.6 | 20 | QM-11 |
| Benzo (a) anthracene | 2.49 | 0.0250 | " | 1.67 | 0.0210 | 148 | 20-125 | 12.9 | 20 | QR-07 |
| Benzo (b) fluoranthene | 2.95 | 0.0250 | " | 1.67 | 0.0223 | 176 | 20-125 | 17.2 | 20 | QR-07 |
| Benzo (k) fluoranthene | 2.33 | 0.0250 | " | 1.67 | 0.0137 | 139 | 20-125 | 7.87 | 20 | QR-07 |
| Benzo (a) pyrene | 2.55 | 0.0250 | " | 1.67 | 0.0160 | 152 | 20-125 | 13.8 | 20 | QR-07 |
| Benzo (g,h,i) perylene | 1.74 | 0.0250 | " | 1.67 | 0.0200 | 103 | 20-125 | 0.0192 | 20 | |

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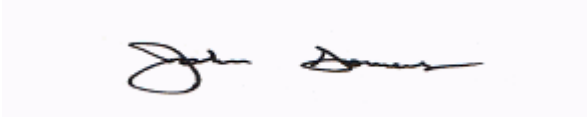

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|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### Total Recoverable Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZF0170 - EPA 6010B** | | | | | | | | | | |
| **Blank (AZF0170-BLK1)** | | | | Prepared: 06/13/16 Analyzed: 06/16/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| **LCS (AZF0170-BS1)** | | | | Prepared: 06/13/16 Analyzed: 06/16/16 | | | | | | |
| Arsenic | 95.0 | 1.0 | mg/kg | 100 | | 95.0 | 80-120 | | | |
| **LCS Dup (AZF0170-BSD1)** | | | | Prepared: 06/13/16 Analyzed: 06/16/16 | | | | | | |
| Arsenic | 95.8 | 1.0 | mg/kg | 100 | | 95.8 | 80-120 | 0.859 | 25 | |
| **Matrix Spike (AZF0170-MS1)** | | **Source: 1606006-01** | | Prepared: 06/13/16 Analyzed: 06/16/16 | | | | | | |
| Arsenic | 79.3 | 1.0 | mg/kg | 100 | 6.45 | 72.9 | 75-125 | | | QL-01 |
| **Matrix Spike Dup (AZF0170-MSD1)** | | **Source: 1606006-01** | | Prepared: 06/13/16 Analyzed: 06/16/16 | | | | | | |
| Arsenic | 76.3 | 1.0 | mg/kg | 100 | 6.45 | 69.9 | 75-125 | 3.80 | 25 | QL-01 |
| **Batch AZF0202 - EPA 6010B** | | | | | | | | | | |
| **Blank (AZF0202-BLK1)** | | | | Prepared: 06/13/16 Analyzed: 06/17/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| **LCS (AZF0202-BS1)** | | | | Prepared: 06/13/16 Analyzed: 06/17/16 | | | | | | |
| Arsenic | 94.6 | 1.0 | mg/kg | 100 | | 94.6 | 80-120 | | | |
| **LCS Dup (AZF0202-BSD1)** | | | | Prepared: 06/13/16 Analyzed: 06/27/16 | | | | | | |
| Arsenic | 97.4 | 1.0 | mg/kg | 100 | | 97.4 | 80-120 | 2.96 | 25 | |
| **Matrix Spike (AZF0202-MS1)** | | **Source: 1606006-21** | | Prepared: 06/13/16 Analyzed: 06/17/16 | | | | | | |
| Arsenic | 77.0 | 1.0 | mg/kg | 100 | 3.71 | 73.3 | 75-125 | | | QL-01 |

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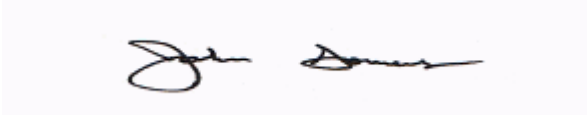

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| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### Total Recoverable Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZF0202 - EPA 6010B** | | | | | | | | | | |
| **Matrix Spike Dup (AZF0202-MSD1)** | | **Source: 1606006-21** | | Prepared: 06/13/16 Analyzed: 06/20/16 | | | | | | |
| Arsenic | 81.3 | 1.0 | mg/kg | 100 | 3.71 | 77.6 | 75-125 | 5.47 | 25 | |
| **Batch AZF0237 - EPA 6010B** | | | | | | | | | | |
| **Blank (AZF0237-BLK1)** | | | | Prepared: 06/16/16 Analyzed: 06/22/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| **LCS (AZF0237-BS1)** | | | | Prepared: 06/16/16 Analyzed: 06/22/16 | | | | | | |
| Arsenic | 99.8 | 1.0 | mg/kg | 100 | | 99.8 | 80-120 | | | |
| **LCS Dup (AZF0237-BSD1)** | | | | Prepared: 06/16/16 Analyzed: 06/22/16 | | | | | | |
| Arsenic | 99.7 | 1.0 | mg/kg | 100 | | 99.7 | 80-120 | 0.160 | 25 | |
| **Matrix Spike (AZF0237-MS1)** | | **Source: 1606006-81** | | Prepared: 06/16/16 Analyzed: 06/22/16 | | | | | | |
| Arsenic | 99.1 | 1.0 | mg/kg | 100 | 10.4 | 88.7 | 75-125 | | | |
| **Matrix Spike Dup (AZF0237-MSD1)** | | **Source: 1606006-81** | | Prepared: 06/16/16 Analyzed: 06/22/16 | | | | | | |
| Arsenic | 102 | 1.0 | mg/kg | 100 | 10.4 | 91.4 | 75-125 | 2.66 | 25 | |
| **Batch AZF0283 - EPA 6010B** | | | | | | | | | | |
| **Blank (AZF0283-BLK1)** | | | | Prepared: 06/15/16 Analyzed: 06/24/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| **LCS (AZF0283-BS1)** | | | | Prepared: 06/15/16 Analyzed: 06/24/16 | | | | | | |
| Arsenic | 103 | 1.0 | mg/kg | 100 | | 103 | 80-120 | | | |

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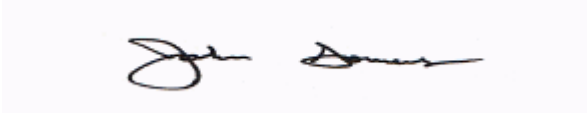

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| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### Total Recoverable Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch AZF0283 - EPA 6010B** | | | | | | | | | | |
| **LCS Dup (AZF0283-BSD1)** | | | | Prepared: 06/15/16 Analyzed: 06/24/16 | | | | | | |
| Arsenic | 102 | 1.0 | mg/kg | 100 | | 102 | 80-120 | 0.0975 | 25 | |
| **Matrix Spike (AZF0283-MS1)** | | **Source: 1606006-41** | | Prepared: 06/15/16 Analyzed: 06/24/16 | | | | | | |
| Arsenic | 131 | 1.0 | mg/kg | 100 | 36.2 | 95.1 | 75-125 | | | |
| **Matrix Spike Dup (AZF0283-MSD1)** | | **Source: 1606006-41** | | Prepared: 06/15/16 Analyzed: 06/24/16 | | | | | | |
| Arsenic | 138 | 1.0 | mg/kg | 100 | 36.2 | 101 | 75-125 | 4.69 | 25 | |
| **Batch AZF0284 - EPA 6010B** | | | | | | | | | | |
| **Blank (AZF0284-BLK1)** | | | | Prepared: 06/16/16 Analyzed: 06/25/16 | | | | | | |
| Arsenic | ND | 1.0 | mg/kg | | | | | | | |
| **LCS (AZF0284-BS1)** | | | | Prepared: 06/16/16 Analyzed: 06/25/16 | | | | | | |
| Arsenic | 97.0 | 1.0 | mg/kg | 100 | | 97.0 | 80-120 | | | |
| **LCS Dup (AZF0284-BSD1)** | | | | Prepared: 06/16/16 Analyzed: 06/25/16 | | | | | | |
| Arsenic | 95.9 | 1.0 | mg/kg | 100 | | 95.9 | 80-120 | 1.19 | 25 | |
| **Matrix Spike (AZF0284-MS1)** | | **Source: 1606006-61** | | Prepared: 06/16/16 Analyzed: 06/25/16 | | | | | | |
| Arsenic | 86.7 | 1.0 | mg/kg | 100 | 5.94 | 80.8 | 75-125 | | | |
| **Matrix Spike Dup (AZF0284-MSD1)** | | **Source: 1606006-61** | | Prepared: 06/16/16 Analyzed: 06/25/16 | | | | | | |
| Arsenic | 101 | 2.0 | mg/kg | 100 | 5.94 | 95.1 | 75-125 | 15.2 | 25 | |

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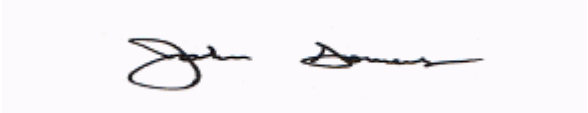
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

### Notes and Definitions

| | |
|---|---|
| Z-01 | The LCSD value for this analyte was above acceptable QC parameters, however the CCV value was within normal limits. |
| QR-07 | Recoveries are outside acceptable QA/QC parameters due to matrix interferences. |
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| QM-11 | The spike recovery and RPD for this analyte is out of QA/QC parameters due to matrix interferences. |
| QL-01 | Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values. |
| ND | Analyte not detected at reporting limit. |
| NR | Not reported |

Excelchem Environmental Lab.

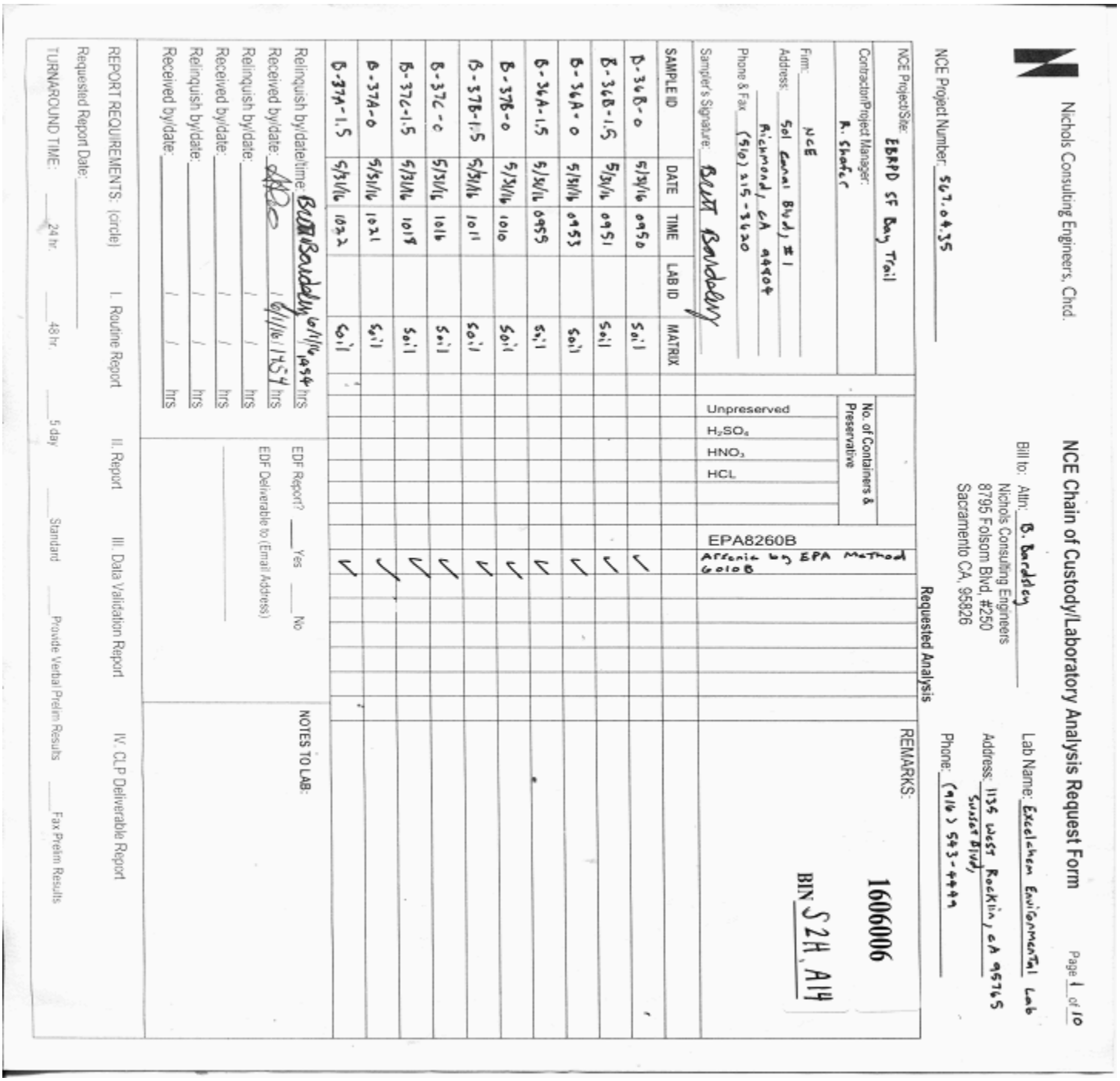


Laboratory Representative

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 1 of 10

NCE Project Number: 567.04.35

Bill to: Attn: B. Bardsley
Nichols Consulting Engineers
8795 Folsom Blvd. #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1135 West Rocklin, CA 95765
Sunset Blvd
Phone: (916) 543-4444

NCE Project/Site: EBRPD SF Bay Trail
Contractor/Project Manager: R. Shafer
Firm: NCE
Address: 501 Canal Blvd, #1 Richmond, CA 94804
Phone & Fax: (510) 215-3620
Sampler's Signature: Brett Bardsley

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B Arsenic by EPA Method 6010 | REMARKS: 1606006 BIN S2H, A14 |
|---|---|---|---|---|---|---|---|---|---|---|
| B-368-0 | 5/31/16 | 0950 | | Soil | | | | | ✓ | |
| B-368-1.5 | 5/31/16 | 0951 | | Soil | | | | | ✓ | |
| B-36A-0 | 5/31/16 | 0953 | | Soil | | | | | ✓ | |
| B-36A-1.5 | 5/31/16 | 0959 | | Soil | | | | | ✓ | |
| B-378-0 | 5/31/16 | 1010 | | Soil | | | | | ✓ | |
| B-378-1.5 | 5/31/16 | 1011 | | Soil | | | | | ✓ | |
| B-37C-0 | 5/31/16 | 1016 | | Soil | | | | | ✓ | |
| B-37C-1.5 | 5/31/16 | 1018 | | Soil | | | | | ✓ | |
| B-37A-0 | 5/31/16 | 1021 | | Soil | | | | | ✓ | |
| B-37A-1.5 | 5/31/16 | 1022 | | Soil | | | | | ✓ | |

Relinquish by/date/time: Brett Bardsley 6/1/16 1054 hrs
Received by/date: [illegible] 6/1/16 1454 hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report
Requested Report Date: ____
TURNAROUND TIME: 24 hr. 48 hr. 5 day Standard Provide Verbal Prelim Results Fax Prelim Results

Excelchem Environmental Lab.

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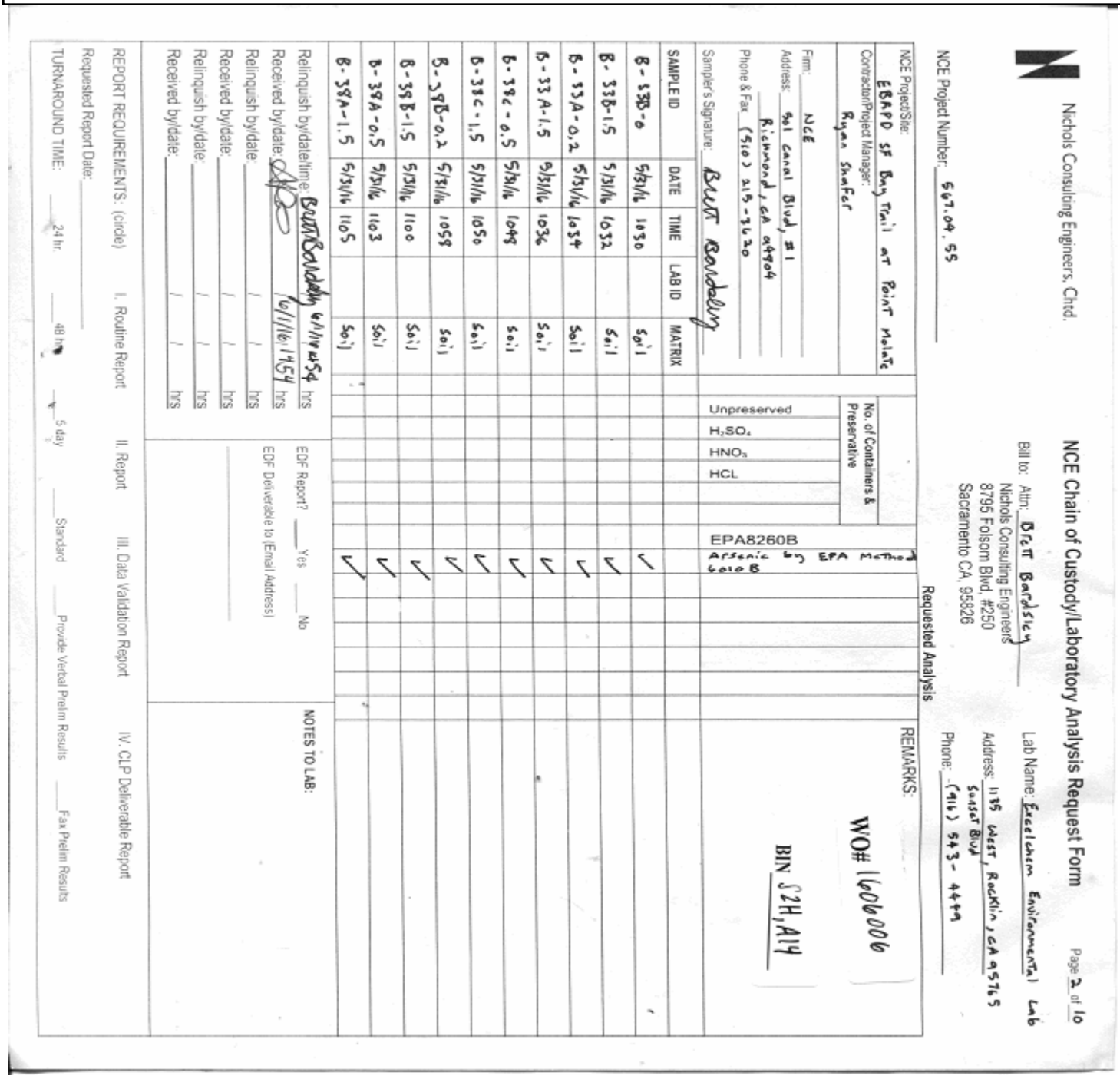
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 2 of 10

NCE Project/Site: EBRPD SF Bay Trail at Point Molate

NCE Project Number: 567.09.55

Contractor/Project Manager: Ryan Shafer

Firm: NCE

Address: 901 Canal Blvd, #1, Richmond, CA 94804

Phone & Fax: (510) 215-3620

Sampler's Signature: Brent Bardsley

Bill to: Attn: Brent Bardsley

Nichols Consulting Engineers
8795 Folsom Blvd. #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab

Address: 1135 West, Rocklin, CA 95765
Sunset Blvd

Phone: (916) 543-4429

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | | EPA8260B | Arsenic by EPA Method 6010B | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-33B-0 | 5/31/16 | 1030 | | Soil | | | | | | ✓ | | WO# 1606006 |
| B-33B-1.5 | 5/31/16 | 1032 | | Soil | | | | | | ✓ | | |
| B-33A-0.2 | 5/31/16 | 1034 | | Soil | | | | | | ✓ | | BIN 52H, A14 |
| B-33A-1.5 | 5/31/16 | 1036 | | Soil | | | | | | ✓ | | |
| B-33C-0.5 | 5/31/16 | 1048 | | Soil | | | | | | ✓ | | |
| B-33C-1.5 | 5/31/16 | 1050 | | Soil | | | | | | ✓ | | |
| B-39B-0.2 | 5/31/16 | 1058 | | Soil | | | | | | ✓ | | |
| B-39B-1.5 | 5/31/16 | 1100 | | Soil | | | | | | ✓ | | |
| B-39A-0.5 | 5/31/16 | 1103 | | Soil | | | | | | ✓ | | |
| B-39A-1.5 | 5/31/16 | 1105 | | Soil | | | | | | ✓ | | |

Relinquish by/date/time: Brent Bardsley 6/1/16 1454 hrs

Received by/date: [illegible] 6/1/16 1454 hrs

Relinquish by/date: / / hrs

Received by/date: / / hrs

Relinquish by/date: / / hrs

Received by/date: / / hrs

EDF Report? ___ Yes ___ No

EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: 24 hr 48 hr 5 day Standard Provide Verbal Prelim Results Fax Prelim Results

Excelchem Environmental Lab.

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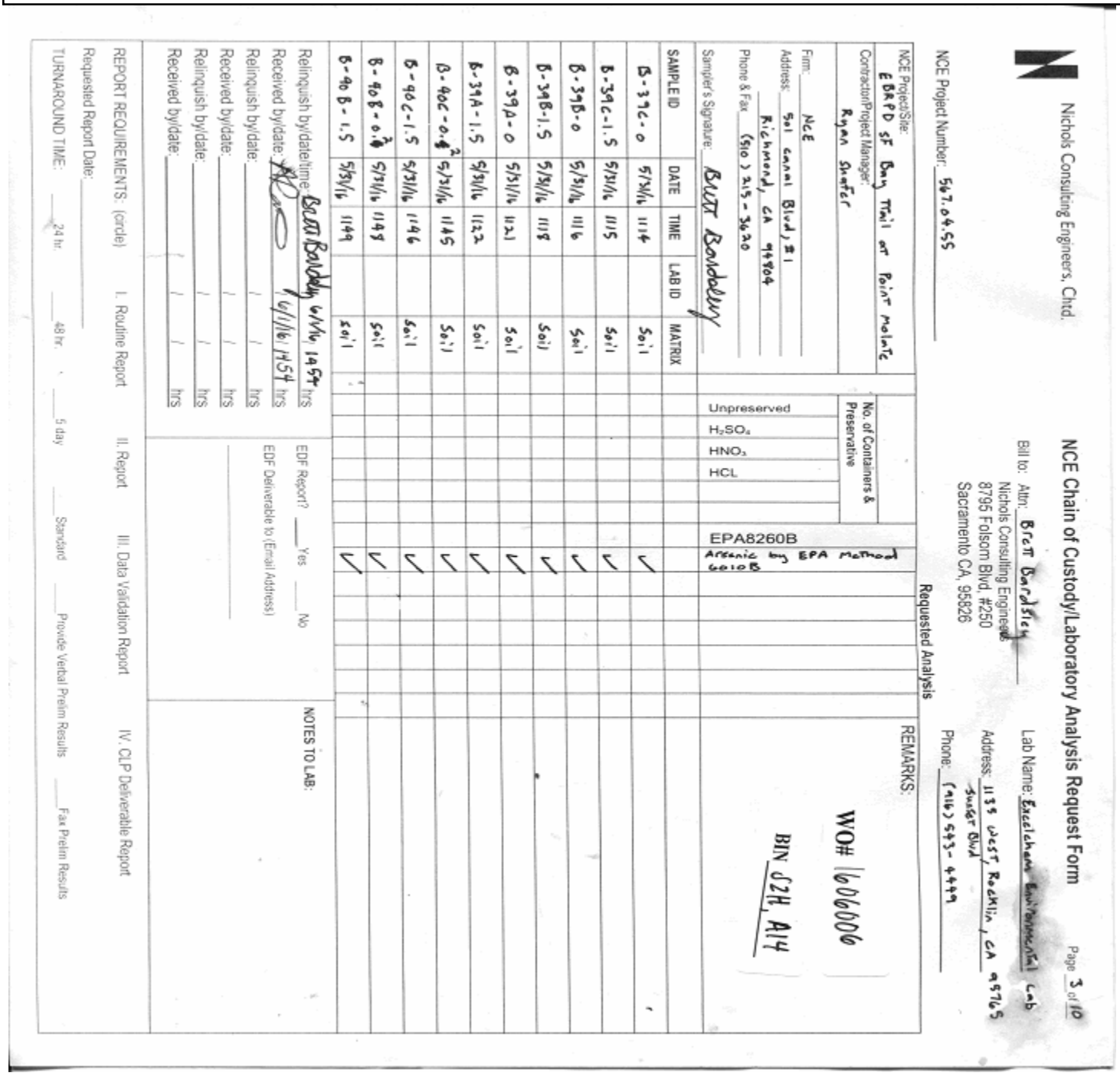
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 3 of 10

NCE Project Number: 567.04.55

Bill to: Attn: Brett Baldwin

Nichols Consulting Engineers
8795 Folsom Blvd. #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab

Address: 1135 West Rockin, CA 95765
Sunset Blvd

Phone: (916) 543-4444

NCE Project/Site: EBRPD SF Bay Trail at Point Molate

Contractor/Project Manager: Ryan Shafer

Firm: NCE

Address: 501 canal Blvd, #1
Richmond, CA 94804

Phone & Fax: (510) 215-3620

Sampler's Signature: Brett Baldwin

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic by EPA Method 6010B | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-39C-0 | 5/31/16 | 1114 | | Soil | | | | | ✓ | | WO# 160606 |
| B-39C-1.5 | 5/31/16 | 1115 | | Soil | | | | | ✓ | | |
| B-39B-0 | 5/31/16 | 1116 | | Soil | | | | | ✓ | | BIN J2H, A14 |
| B-39B-1.5 | 5/31/16 | 1118 | | Soil | | | | | ✓ | | |
| B-39A-0 | 5/31/16 | 1121 | | Soil | | | | | ✓ | | |
| B-39A-1.5 | 5/31/16 | 1122 | | Soil | | | | | ✓ | | |
| B-40C-0.5 | 5/31/16 | 1145 | | Soil | | | | | ✓ | | |
| B-40C-1.5 | 5/31/16 | 1146 | | Soil | | | | | ✓ | | |
| B-40B-0.5 | 5/31/16 | 1148 | | Soil | | | | | ✓ | | |
| B-40B-1.5 | 5/31/16 | 1149 | | Soil | | | | | ✓ | | |

Relinquish by/date/time: Brett Baldwin 6/1/16 1454 hrs

Received by/date: [illegible] 6/1/16 1454 hrs

Relinquish by/date: _____ hrs

Received by/date: _____ hrs

Relinquish by/date: _____ hrs

Received by/date: _____ hrs

EDF Report? ___ Yes ___ No

EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date: _____

TURNAROUND TIME: ___24 hr ___48 hr ___5 day ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

Excelchem Environmental Lab.

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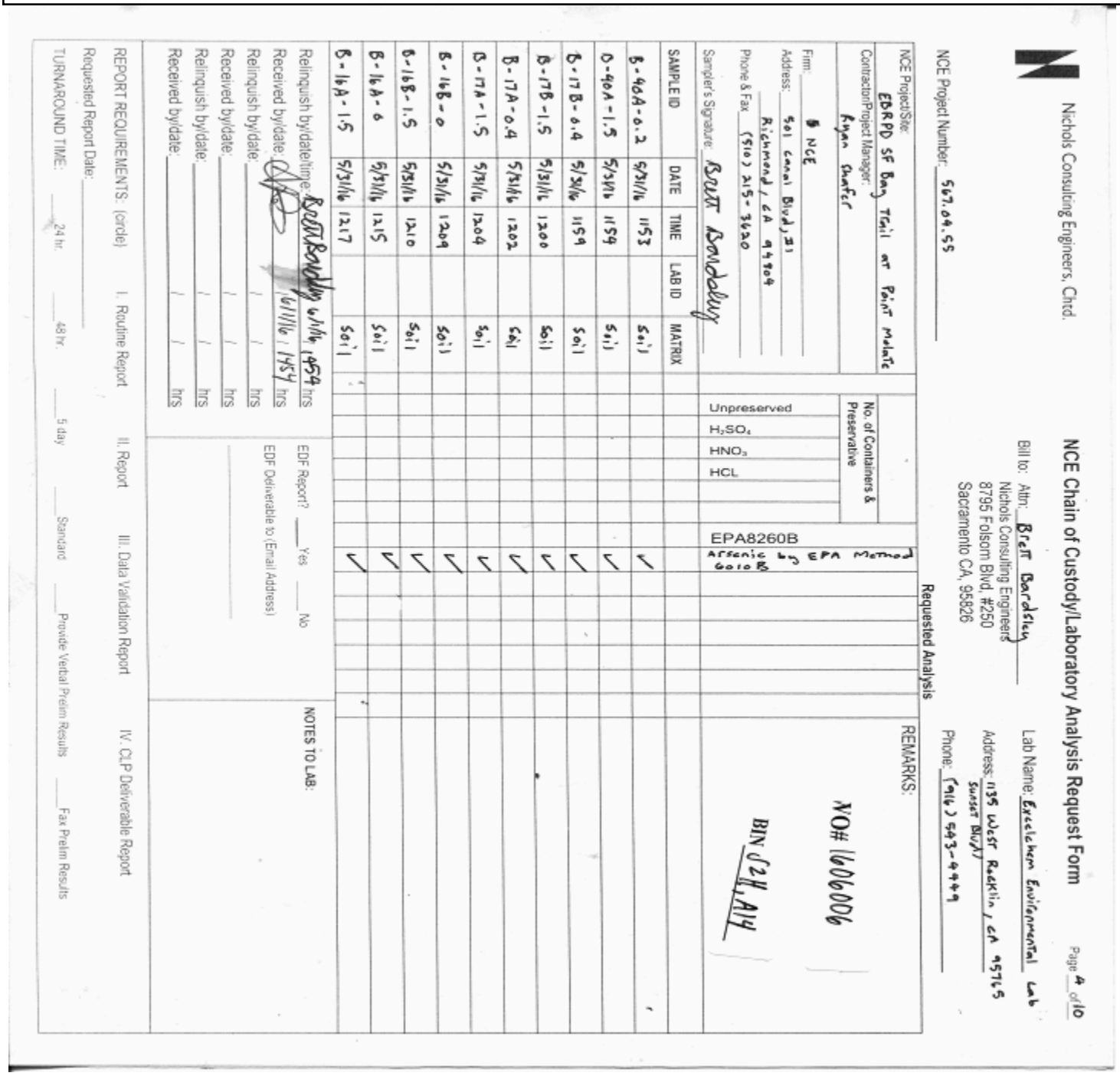
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 4 of 10

NCE Project Number: 567.04.55

Bill to: Attn: Brett Bardsley
Nichols Consulting Engineers
8795 Folsom Blvd, #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1135 West Rankin, CA 95765
Sunset Blvd
Phone: (916) 543-9999

NCE Project/Site: EBRPD SF Bay Trail at Point Molate
Contractor/Project Manager: Ryan Shafer
Firm: B NCE
Address: 501 Canal Blvd, #B1
Richmond, CA 94804
Phone & Fax: (510) 215-3620
Sampler's Signature: Brett Bardsley

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | EPA Method 6010B Arsenic LD |
|---|---|---|---|---|---|---|---|---|---|---|
| B-90A-0.2 | 5/31/16 | 1153 | | Soil | | | | | ✓ | |
| B-90A-1.5 | 5/31/16 | 1159 | | Soil | | | | | ✓ | |
| B-17B-0.4 | 5/31/16 | 1159 | | Soil | | | | | ✓ | |
| B-17B-1.5 | 5/31/16 | 1200 | | Soil | | | | | ✓ | |
| B-17A-0.4 | 5/31/16 | 1202 | | Soil | | | | | ✓ | |
| B-17A-1.5 | 5/31/16 | 1204 | | Soil | | | | | ✓ | |
| B-16B-0 | 5/31/16 | 1209 | | Soil | | | | | ✓ | |
| B-16B-1.5 | 5/31/16 | 1210 | | Soil | | | | | ✓ | |
| B-16A-0 | 5/31/16 | 1215 | | Soil | | | | | ✓ | |
| B-16A-1.5 | 5/31/16 | 1217 | | Soil | | | | | ✓ | |

REMARKS:
NO# 1606006
BIN J2H, AH

Relinquish by/date/time: Brett Bardsley 6/1/16 1459 hrs
Received by/date: 6/1/16 1454 hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report
Requested Report Date:
TURNAROUND TIME: 24 hr. 48 hr. 5 day Standard Provide Verbal Prelim Results Fax Prelim Results

Excelchem Environmental Lab.

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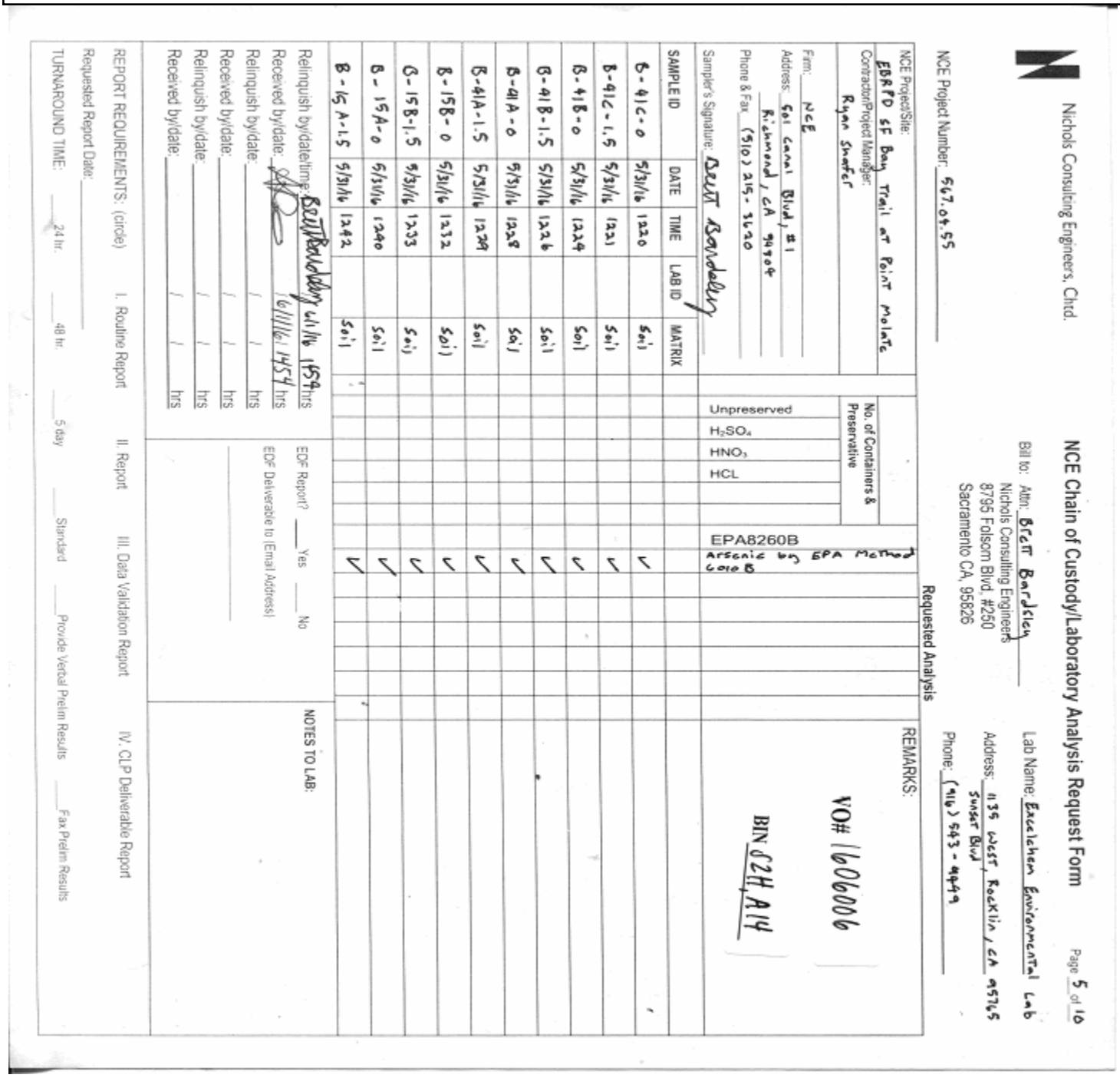
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 5 of 10

NCE Project Number: 567.04.55

Bill to: Attn: Brett Bardsley
Nichols Consulting Engineers
8795 Folsom Blvd. #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1135 West Rocklin, CA 95765
Sunset Blvd
Phone: (916) 543-9949

NCE Project/Site: EBRPD SF Bay Trail at Point Molate
Contractor/Project Manager: Ryan Shafer
Firm: NCE
Address: 501 Canal Blvd, #1 Richmond, CA 94804
Phone & Fax: (510) 215-3620
Sampler's Signature: Brett Bardsley

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic by EPA Method 6010B |
|---|---|---|---|---|---|---|---|---|---|---|
| B-41C-0 | 5/31/16 | 1220 | | Soil | | | | | ✓ | |
| B-41C-1.5 | 5/31/16 | 1221 | | Soil | | | | | ✓ | |
| B-41B-0 | 5/31/16 | 1224 | | Soil | | | | | ✓ | |
| B-41B-1.5 | 5/31/16 | 1226 | | Soil | | | | | ✓ | |
| B-41A-0 | 5/31/16 | 1228 | | Soil | | | | | ✓ | |
| B-41A-1.5 | 5/31/16 | 1229 | | Soil | | | | | ✓ | |
| B-15B-0 | 5/31/16 | 1232 | | Soil | | | | | ✓ | |
| B-15B-1.5 | 5/31/16 | 1233 | | Soil | | | | | ✓ | |
| B-15A-0 | 5/31/16 | 1240 | | Soil | | | | | ✓ | |
| B-15A-1.5 | 5/31/16 | 1242 | | Soil | | | | | ✓ | |

REMARKS:
VO# 1606006
BIN 52H,A14

Relinquish by/date/time: Brett Bardsley 6/1/16 1454 hrs
Received by/date: _____ hrs
Relinquish by/date: _____ hrs
Received by/date: _____ hrs
Relinquish by/date: _____ hrs
Received by/date: _____ hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address):

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date: _____

TURNAROUND TIME: ___24 hr. ___48 hr. ___5 day ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

Excelchem Environmental Lab.

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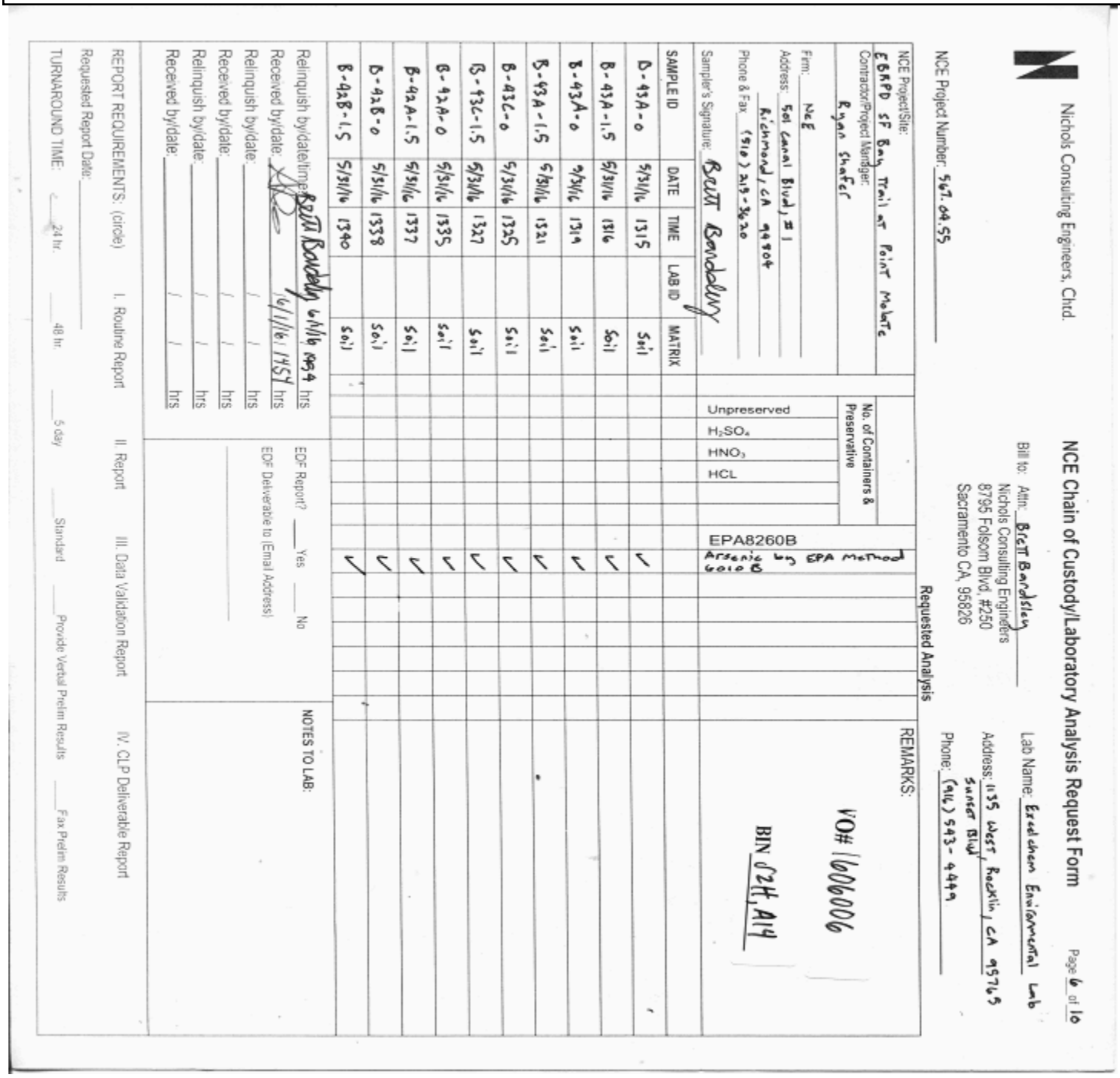
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 6 of 10

Bill to: Attn: Brett Bandelow
Nichols Consulting Engineers
8795 Folsom Blvd. #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1135 West Rockin, CA 95765
Sunset Blvd
Phone: (916) 543-4999

NCE Project Number: 567.04.55

NCE Project/Site: EBRPD SF Bay Trail at Point Molate
Contractor/Project Manager: Ryan Shafer
Firm: NCE
Address: 501 Canal Blvd #1
Richmond, CA 94804
Phone & Fax: (510) 215-3620
Sampler's Signature: Brett Bandelow

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | Arsenic by EPA Method 6010B | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-93A-0 | 5/31/16 | 1315 | | Soil | | | | | ✓ | | VO# 1606006 |
| B-93A-1.5 | 5/31/16 | 1316 | | Soil | | | | | ✓ | | |
| B-93A-0 | 5/31/16 | 1319 | | Soil | | | | | ✓ | | |
| B-93A-1.5 | 5/31/16 | 1321 | | Soil | | | | | ✓ | | |
| B-43C-0 | 5/31/16 | 1325 | | Soil | | | | | ✓ | | |
| B-43C-1.5 | 5/31/16 | 1327 | | Soil | | | | | ✓ | | |
| B-42A-0 | 5/31/16 | 1335 | | Soil | | | | | ✓ | | |
| B-42A-1.5 | 5/31/16 | 1337 | | Soil | | | | | ✓ | | |
| B-42B-0 | 5/31/16 | 1338 | | Soil | | | | | ✓ | | |
| B-42B-1.5 | 5/31/16 | 1340 | | Soil | | | | | ✓ | | BIN 22H, A14 |

Relinquish by/date/time: Brett Bandelow 6/1/16 0954 hrs
Received by/date: [illegible] 6/1/16 1154 hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address):

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: 24 hr. 48 hr. 5 day Standard Provide Verbal Prelim Results Fax Prelim Results

Excelchem Environmental Lab.

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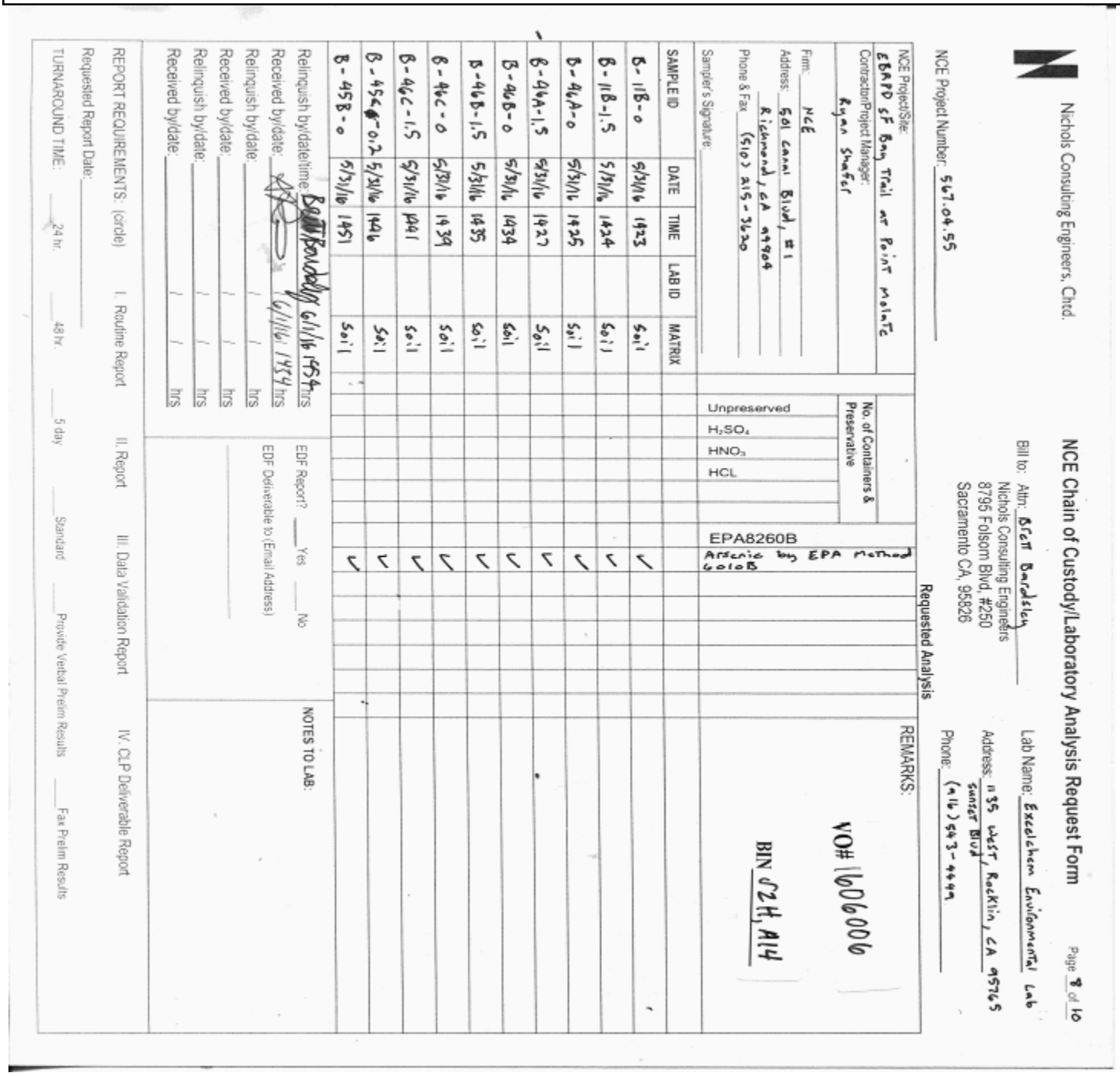
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 8 of 10

NCE Project Number: 567.04.55

Bill to: Attn: Brett Bardsley
Nichols Consulting Engineers
8795 Folsom Blvd, #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1955 West Sunset Blvd, Rocklin, CA 95765
Phone: (916) 543-4999

NCE Project/Site: EBRPD SF Bay Trail at Point Molate
Contractor/Project Manager: Ryan Shafer
Firm: NCE
Address: 501 Canal Blvd, #1 Richmond, CA 94804
Phone & Fax: (510) 215-3620
Sampler's Signature:

No. of Containers & Preservative: Unpreserved; $H_2SO_4$; $HNO_3$; HCL

Requested Analysis: EPA8260B Analyte by EPA Method 6010B

REMARKS: VO# 1606006 BIN 02H, A14

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX |
|---|---|---|---|---|
| B-118-0 | 5/31/16 | 1923 | | Soil |
| B-118-1.5 | 5/31/16 | 1924 | | Soil |
| B-94A-0 | 5/31/16 | 1925 | | Soil |
| B-94A-1.5 | 5/31/16 | 1927 | | Soil |
| B-94B-0 | 5/31/16 | 1934 | | Soil |
| B-94B-1.5 | 5/31/16 | 1935 | | Soil |
| B-94C-0 | 5/31/16 | 1939 | | Soil |
| B-94C-1.5 | 5/31/16 | 1941 | | Soil |
| B-95A-0.2 | 5/31/16 | 1946 | | Soil |
| B-95B-0 | 5/31/16 | 1951 | | Soil |

Relinquish by/date/time: Brett Bardsley 6/1/16 1454 hrs
Received by/date: 6/1/16 1454 hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: 24 hr. 48 hr. 5 day Standard Provide Verbal Prelim Results Fax Prelim Results

Excelchem Environmental Lab.

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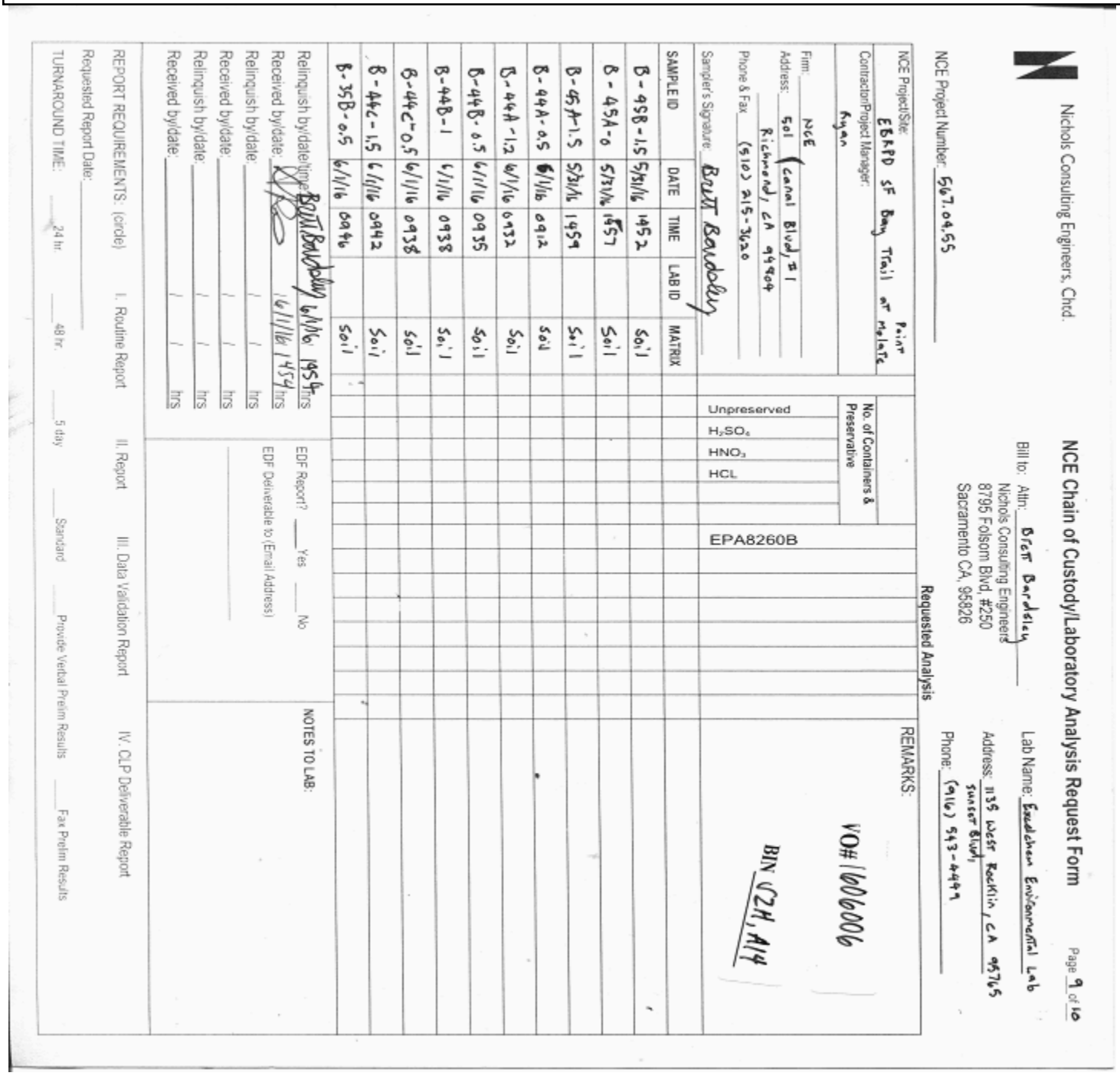
Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 9 of 10

NCE Project Number: 567.04.55

Bill to: Attn: Brett Bardsley
Nichols Consulting Engineers
8795 Folsom Blvd, #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1135 West Rockin, CA 95765
Sunset Blvd
Phone: (916) 543-4490

NCE Project/Site: EBRPD SF Bay Trail at Point Pinole

Contractor/Project Manager: Ryan

Firm: NCE
Address: 501 Canal Blvd, #1
Richmond, CA 94804
Phone & Fax: (510) 215-3620

Sampler's Signature: Brett Bardsley

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA8260B | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| B-458-1.5 | 5/31/16 | 1452 | | Soil | | | | | | |
| B-45A-0 | 5/31/16 | 1457 | | Soil | | | | | | |
| B-45A-1.5 | 5/31/16 | 1459 | | Soil | | | | | | |
| B-44A-0.5 | 6/1/16 | 0912 | | Soil | | | | | | |
| B-44A-1.2 | 6/1/16 | 0932 | | Soil | | | | | | |
| B-44B-0.5 | 6/1/16 | 0935 | | Soil | | | | | | |
| B-44B-1 | 6/1/16 | 0938 | | Soil | | | | | | |
| B-44C-0.5 | 6/1/16 | 0938 | | Soil | | | | | | |
| B-44C-1.5 | 6/1/16 | 0942 | | Soil | | | | | | |
| B-35B-0.5 | 6/1/16 | 0946 | | Soil | | | | | | |

VO# 1606006

BIN SZH, AIH

Relinquish by/date/time: Brett Bardsley 6/1/16 1454 hrs
Received by/date: 6/1/16 1454 hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs
Relinquish by/date: / / hrs
Received by/date: / / hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date:

TURNAROUND TIME: ___24 hr. ___48 hr. ___5 day ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

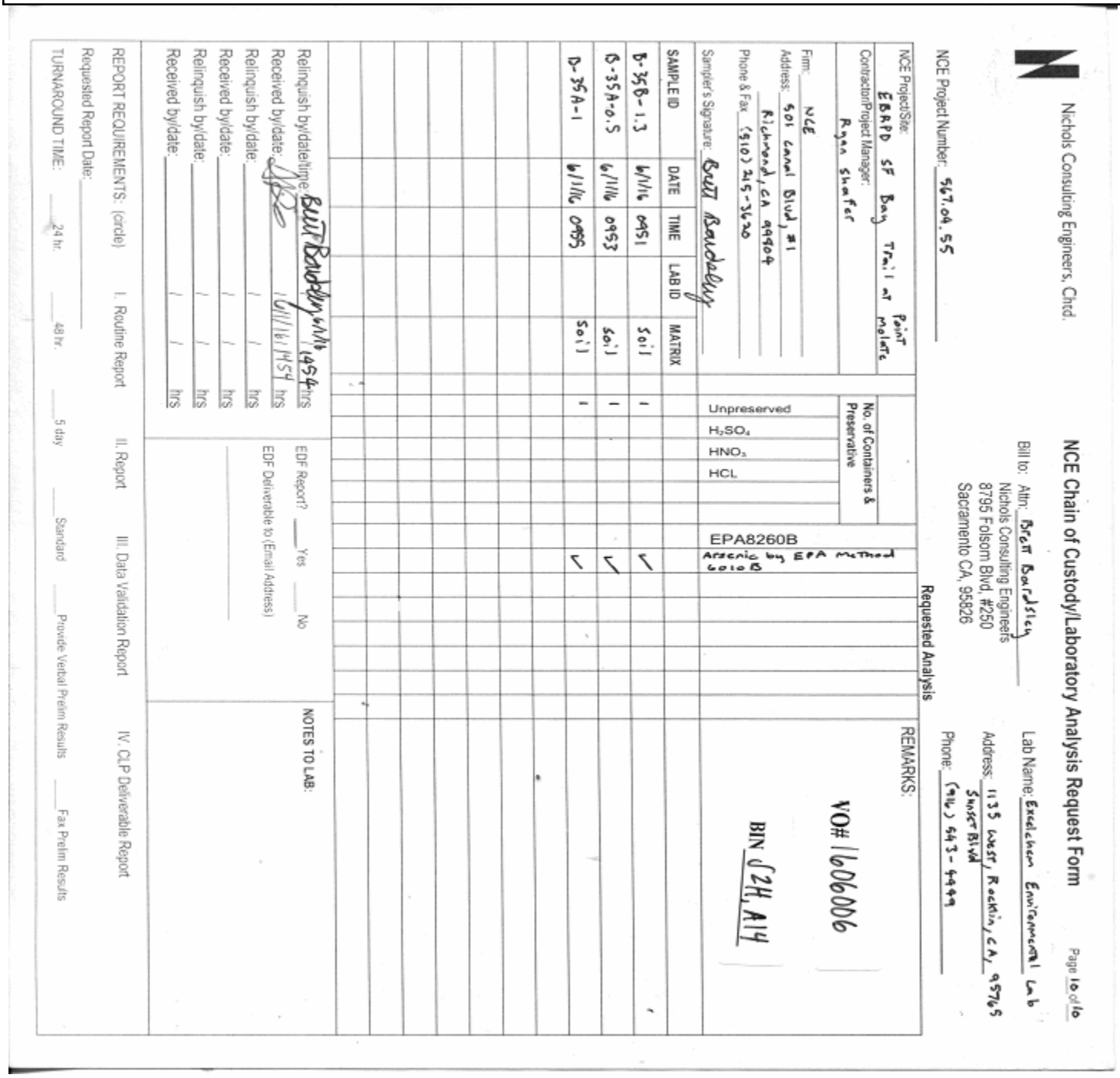
Excelchem Environmental Lab.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 1 of 1

Bill to: Attn: Brett Baerlocher
Nichols Consulting Engineers
8795 Folsom Blvd, #250
Sacramento CA, 95826

Lab Name: Excelchem Environmental Lab
Address: 1135 West Rockhin, CA 95765
Phone: (916) 543-9999

NCE Project Number: 567.04.55

NCE Project/Site: EBRPD SF Bay Trail at Point Molate

Contractor/Project Manager: Ryan Shafer

Firm: NCE
Address: 501 Canal Blvd, #1, Richmond, CA 94804
Phone & Fax: (510) 245-3620

Sampler's Signature: Brett Baerlocher

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | | EPA8260B | Arsenic by EPA Method 6010B | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-35B-1.3 | 6/1/16 | 0951 | | Soil | 1 | | | | | | ✓ | VO# 1606006 |
| B-35A-0.5 | 6/1/16 | 0953 | | Soil | 1 | | | | | | ✓ | BIN J2H, A14 |
| B-35A-1 | 6/1/16 | 0955 | | Soil | 1 | | | | | | ✓ | |

Relinquish by/date/time: Brett Baerlocher 6/1/16 1454 hrs
Received by/date:
Relinquish by/date: ____ hrs
Received by/date: ____ hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date: ____

TURNAROUND TIME: ___24 hr. ___48 hr. ___5 day ___Standard ___Provide Verbal Prelim Results ___Fax Prelim Results

Excelchem Environmental Lab.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Laboratory Representative

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

## Sample Integrity

## WORK ORDER _1606006_

Date Received:__06/01/2016__

**Section 1 – Sample Arrival Info.**

Sample Transport: ONTRAC UPS USPS ***Walk-In*** EXCELCHEM Courier Fed-Ex Other:_____

Transported In: ***Ice Chest*** Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / ***On Ice***

Temperature of Samples (°C): __19__ Ice Chest Temperature(s) (°C): _0__

**Section 2 – Bottle/Analysis Info.**

| | Yes | No | N/A | Comments |
|---|---|---|---|---|
| Did all bottles arrive unbroken and intact? | | X | | 1/10 broken glass jar – B-35-B-0.5 |
| Did all bottle labels agree with COC? | X | | | |
| Were correct containers used for the tests requested? | X | | | |
| Were correct preservations used for the tests requested? | X | | | |
| Was a sufficient amount of sample sent for tests indicated? | X | | | |
| Were bubbles present in VOA Vials?: **(Volatile Methods Only)** | | X | | |

**Section 3 – Summa/Flow regulator Info.**

| | |
|---|---|
| ***Used Summa#:*** | N/A |
| **Unused Summa#:** | |
| **Cleaning Summa#:** | |
| **Regulator#:** | |
| Was there any visual damage to summa canisters **or** flow regulators? **Explain.** | |

**Section 4 – COC Info.**

| | Completed Yes | No | Info From Container | | Completed Yes | No | Comments |
|---|---|---|---|---|---|---|---|
| Was COC Received | X | | | Analysis Requested | X | | |
| Date Sampled | X | | | Samples arrived within holding time | X | | |
| Time Sampled | X | | | Any hold times less than 72 hrs | | X | |
| Sample ID | X | | | Client Name | X | | |
| Rush TAT | | X | | Address/Telephone # | X | | |

**Section 5 – Comments / Discrepancies**

Was Client notified of discrepancies: Yes No *N/A* Notified by:

Explanations / Comments:

Samples Labeled by: ____*AR*____
Bin #s: _S2H, A14_
COC Scanned/Attached by: _AR_
Sample labels reviewed by: __AR____

| | | | |
|---|---|---|---|
| **Filled Out by:** | Antoinette Ranit | **Date:** | 06/01/16 |
| | | **Time:** | 16:22 |

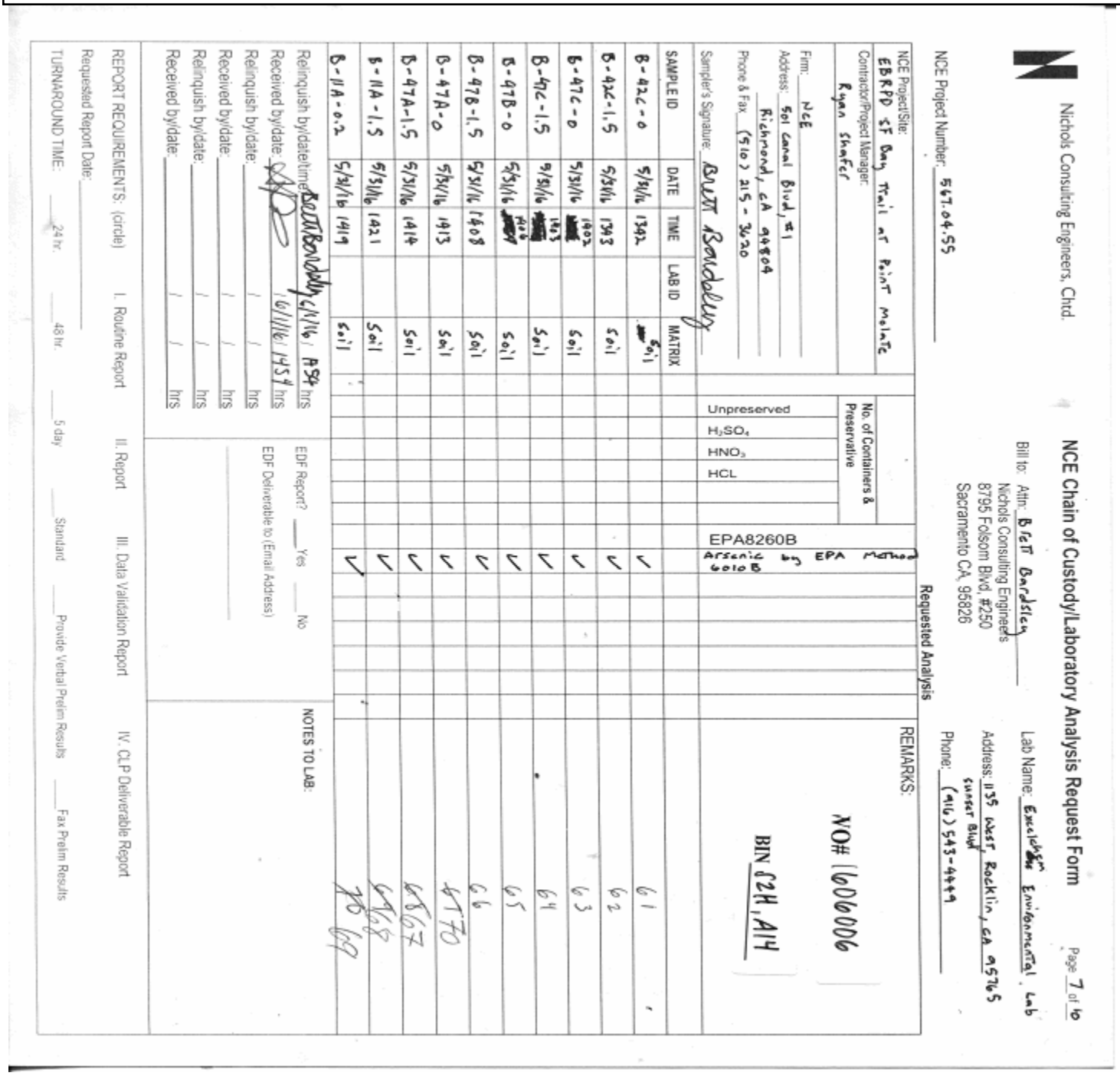
Excelchem Environmental Lab.

Laboratory Representative

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers<br>8795 Folsom Blvd., Suite 250<br>Sacramento, CA 95826 | Project:<br>Project Number:<br>Project Manager: | EBRPD SF Bay Trail<br>[none]<br>Ryan Shafer | Date Reported:<br>06/28/16 11:15 |



Nichols Consulting Engineers, Chtd.

NCE Chain of Custody/Laboratory Analysis Request Form

Page 7 of 10

Lab Name: Excelchem Environmental Lab

Bill to: Attn: Brett Bardsley
Nichols Consulting Engineers
8795 Folsom Blvd, #250
Sacramento CA, 95826

Address: 115 West Rockliff Blvd, Rocklin, CA 95765

Phone: (916) 543-4999

NCE Project Number: 567.04.55

NCE Project/Site: EBRPD SF Bay Trail at Point Molate

Contractor/Project Manager: Ryan Shafer

Firm: NCE

Address: 501 Canal Blvd, #1
Richmond, CA 94804

Phone & Fax: (510) 215-3620

Sampler's Signature: Brett Bardsley

Requested Analysis

| SAMPLE ID | DATE | TIME | LAB ID | MATRIX | No. of Containers & Preservative: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCL | EPA 8260B | EPA Method 6010B Arsenic |
|---|---|---|---|---|---|---|---|---|---|---|
| B-42C-0 | 5/31/16 | 1342 | | Soil | | | | | ✓ | |
| B-42C-1.5 | 5/31/16 | 1343 | | Soil | | | | | ✓ | |
| B-47C-0 | 5/31/16 | 1402 | | Soil | | | | | ✓ | |
| B-47C-1.5 | 5/31/16 | 1403 | | Soil | | | | | ✓ | |
| B-47B-0 | 5/31/16 | 1408 | | Soil | | | | | ✓ | |
| B-47B-1.5 | 5/31/16 | 1408 | | Soil | | | | | ✓ | |
| B-47A-0 | 5/31/16 | 1413 | | Soil | | | | | ✓ | |
| B-47A-1.5 | 5/31/16 | 1414 | | Soil | | | | | ✓ | |
| B-11A-1.5 | 5/31/16 | 1421 | | Soil | | | | | ✓ | |
| B-11A-0.2 | 5/31/16 | 1419 | | Soil | | | | | ✓ | |

REMARKS:

NO# 1606006

BIN 02H, A14

Relinquish by/date/time: Brett Bardsley 6/1/16 0954 hrs
Received by/date: 6/1/16 1454 hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs
Relinquish by/date: ____ hrs
Received by/date: ____ hrs

EDF Report? ___ Yes ___ No
EDF Deliverable to (Email Address)

NOTES TO LAB:

REPORT REQUIREMENTS: (circle) I. Routine Report II. Report III. Data Validation Report IV. CLP Deliverable Report

Requested Report Date: ____

TURNAROUND TIME: ___ 24 hr. ___ 48 hr. ___ 5 day ___ Standard ___ Provide Verbal Prelim Results ___ Fax Prelim Results

Excelchem Environmental Lab.

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Laboratory Representative

## Excelchem Environmental Labs

| | | | |
|---|---|---|---|
| Nichols Consulting Engineers | Project: | EBRPD SF Bay Trail | |
| 8795 Folsom Blvd., Suite 250 | Project Number: | [none] | Date Reported: |
| Sacramento, CA 95826 | Project Manager: | Ryan Shafer | 06/28/16 11:15 |

**Front Desk**

**From:** Brett Bardsley <BBardsley@ncenet.com>
**Sent:** Monday, June 06, 2016 5:54 PM
**To:** Front Desk
**Cc:** John Somers
**Subject:** Point Molate - PAHs

Hi Mindy,

We would like to have the following samples tested for PAHs by EPA Method 8270SIM:

B-37C-0 (5/31/16 at 1016 hours);
B-42B-0 (5/31/16 at 1338 hours);
B-45B-0 (5/31/16 at 1434 hours);
B-47B-0 (5/31/16 at 1406 hours); and
B-43B-0 (5/31/16 at 1319).

I just noticed that I identified that sample incorrectly on the chain of custody.

Please let me know if you have any questions or comments.

Regards,

NCE
**Brett Bardsley, P.G.**
**Senior Geologist**
**p** (916) 388-5655
**f** (916) 388-5676 **e** bbardsley@ncenet.com
**NCE**
8795 Folsom Blvd., Suite 250, Sacramento, CA 95826
www.ncenet.com
***Collaboration. Commitment. Confidence.SM***

1

Excelchem Environmental Lab.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Laboratory Representative

# ATTACHMENT D

# ASBESTOS LABORATORY ANALYTICAL REPORT

Forensic Analytical LABORATORIES

**Final Report**

# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Forensic Analytical Consulting Svcs
David Justin Brinkerhoff
7625 Sunrise Blvd.
Suite 104
Citrus Heights, CA 95610

**Client ID:** SAC02
**Report Number:** B224994
**Date Received:** 07/21/16
**Date Analyzed:** 07/22/16
**Date Printed:** 07/22/16
**First Reported:** 07/22/16

**Job ID/Site:** PJ3027; FACS Sacramento Internal 7625 Sunrise Boulevard, Suite 104 Citrus Heights, CA 95610
**Date(s) Collected:** 07/20/2016

**FALI Job ID:** SAC02
**Total Samples Submitted:** 3
**Total Samples Analyzed:** 3

| Sample ID | Lab Number | Asbestos Type | Percent in Layer | Asbestos Type | Percent in Layer | Asbestos Type | Percent in Layer |
|---|---|---|---|---|---|---|---|
| **A-01** | 11787316 | | | | | | |
| Layer: Grey Roof Shingle | | | **ND** | | | | |
| Total Composite Values of Fibrous Components: | | **Asbestos (ND)** | | | | | |
| Fibrous Glass (30 %) | | | | | | | |
| **A-02** | 11787317 | | | | | | |
| Layer: Grey Roof Shingle | | | **ND** | | | | |
| Layer: Black Tar | | | **ND** | | | | |
| Total Composite Values of Fibrous Components: | | **Asbestos (ND)** | | | | | |
| Fibrous Glass (30 %) | | | | | | | |
| **A-03** | 11787318 | | | | | | |
| Layer: Grey Roof Shingle | | | **ND** | | | | |
| Total Composite Values of Fibrous Components: | | **Asbestos (ND)** | | | | | |
| Fibrous Glass (30 %) | | | | | | | |

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

FACS → SAC

# SAMPLING DATA FORM & CHAIN OF CUSTODY

Page 1 of ___

Sacramento International, 7825 Sunrise Blvd, Ste 107, Citrus Heights, CA 95610

CM

CLIENT: ~~HAY01 FACS San Francisco~~ ~~Kaiser Capital Proj Facilities Construction~~

Sampled by: Chris Morgan

Sample Date: ~~7/19/16~~ 7/20/16

Site/Bldg.: Point Molate, Richmond, CA

Turnaround Time: RUSH (X 24 hr) 48 hr Extended (____ days)

Analysis: (X PLM Standard) _____ PLM with Point Count (___400 pt. ____ 1,000 pt.)

FACS Proj. No.: PJ 3027

Special Instructions E-mail results to cmorgan@forensicanalytical.com and dbrinkerhoff@forensicanalytical.com

| HA# | Homogeneous Material Description (incl. color, texture, phase of construction) | Quant. in SF (LF for small pipe only) | Friable/ Cat. I/ Cat. II | Condition (good, fair, poor) | Sample Number | Sample Location | Lab Result (when rcvd) |
|---|---|---|---|---|---|---|---|
| 1 | Black roofing shingles | | | | A-01 | Pt Molate, Richmond - On ground along water tank - Coordinates: 37°56'51" N 122°25'19" W | |
| 1 | ↓ | | | | A-02 | ↓ | |
| 1 | ↓ | | | | A-03 | ↓ | |
| | | | | | | Observed <100 SF of scattered roofing shingles | |

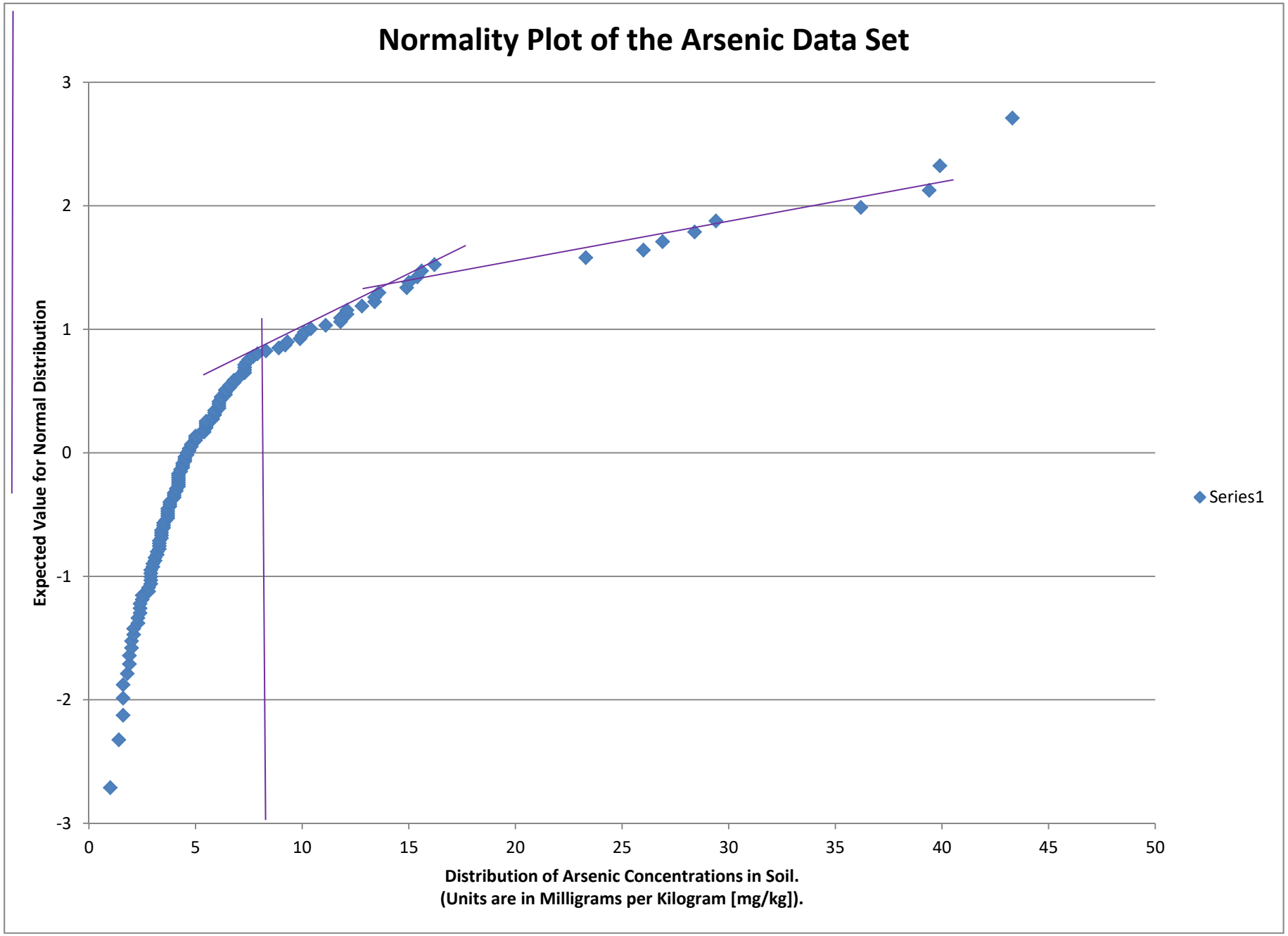
DW = Drywall JC = Joint Compound WT = Wall Texture VFT = Vinyl Floor Tile VSF = Vinyl Sheet Flooring BB = Baseboard BBM = Baseboard Mastic CM = Carpet Mastic ACT = Acoustic Ceiling Tile ACS = Sprayed-on Acoustical Ceiling Material FP = Fireproofing PI = Pipe Insulation PFI = Pipe fitting insulation WP = Plaster CP = Ceiling Plaster ES = Exterior Stucco

| | | |
|---|---|---|
| Relinquished by: Date & Time: Chris Morgan 7/21/16 | Relinquished by: Date & Time: d/o | Relinquished by: Date & Time: |
| Received by: Date & Time | Received by: Date & Time | Relinquished by: Date & Time: |

RECEIVED JUL 21 2016

# ATTACHMENT E

# NORMALITY PLOT OF THE ARSENIC DATA SET


Normality Plot of the Arsenic Data Set
Expected Value for Normal Distribution
3
2
1
0
-1
-2
-3
0
5
10
15
20
25
30
35
40
45
50
Distribution of Arsenic Concentrations in Soil.
(Units are in Milligrams per Kilogram [mg/kg]).
Series1

# APPENDIX Q
PHOTOGRAPH LOG

**Photograph 1:** Boarded up windows and rusted sliding warehouse doors on western exterior of Building 6.

**Photograph 2:** Western exterior of Building 6.

| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: Winehaven Legacy LLC | **PHOTO LOG** |
| terraphase engineering | PROJECT: Former Point Molate Naval Fuel Depot, Richmond, CA | |
| | PROJECT NUMBER: 0351.001.001 | **PAGE 1** |

**Photograph 3:**
Tank observed in parking lot on eastern side of Building 6; contents unknown.

**Photograph 4:**
Area where roof collapsed on western side of Building 6.

| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: Winehaven Legacy LLC | **PHOTO LOG** |
| terraphase engineering | PROJECT:<br>Former Point Molate Naval Fuel Depot, Richmond, CA | |
| | PROJECT NUMBER: 0351.001.001 | **PAGE 2** |

**Photograph 5:**
Debris from roof collapse on western side of Building 6.

**Photograph 6:**
Broken and missing tile floors on interior of southern end of Building 6.

| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: Winehaven Legacy LLC | **PHOTO LOG** |
| terraphase engineering | PROJECT:<br>Former Point Molate Naval Fuel Depot, Richmond, CA | |
| | PROJECT NUMBER: 0351.001.001 | **PAGE 3** |

**Photograph 7:** Dirty desks, old office supplies and various debris on interior of southern end of Building 6.

**Photograph 8:** Warehouse area on western side of Building 6 with several holes in roof observed.

**Photograph 9:** Aboveground housed machine or tank below overhang on eastern side of Building 68.

**Photograph 10:** Large crack observed on exterior of southeast side of Building 1.

**Photograph 11:** Propane stored on exterior loading dock on eastern side of Building 1.

**Photograph 12:** Tenant on eastern side of Building 1 a liquor distributor with furniture, miscellaneous lumber, and pallets observed on interior.

**Photograph 13:** Wooden planks missing from deck area on northeastern side of Building 1.

**Photograph 14:** Warehouse loading area observed on western side of Building 1 with wood debris found inside and gaps in wood roof.

**Photograph 15:** Water tank observed on western side of Building 1.

**Photograph 16:** Vegetated areas in IR Site 3.

**Photograph 17:** Old railroad ties next to shoreline within IR Site 3.

**Photograph 18:** Well boxes observed within IR Site 3.

**Photograph 19:** Five lube oil ASTs observed in Building 89 in Drum Lot 1.

**Photograph 20:** Small diesel AST observed behind Building 123 in Drum Lot 1.

| | | |
|---|---|---|
| **SAFETY FIRST** | CLIENT: Winehaven Legacy LLC | **PHOTO LOG** |
| terraphase engineering | PROJECT: Former Point Molate Naval Fuel Depot, Richmond, CA | |
| | PROJECT NUMBER: 0351.001.001 | **PAGE 10** |

**Photograph 21:** Small AST observed outside of Building 69 in Drum Lot 1.

**Photograph 22:** AST observed in middle of Drum Lot 1.

**Photograph 23:** Insulation and a rusted drum (contents unknown) observed on interior of Building 77 of Drum Lot 1.

**Photograph 24:** Bucket of unidentified liquid observed next to suspected oil filter/discharge machine on interior of Building 77 of Drum Lot 1.

**Photograph 25:** Peeling paint observed on interior of Building 69 in Drum Lot 1.

**Photograph 26:** Various drums observed on exterior of Building 69 in Drum Lot 1; contents not identified.

**Photograph 27:** Vegetation observed along Perimeter Road southeast of Drum Lot 1.

**Photograph 28:** Broken wood panels observed in interior entrance of Building 87.

**Photograph 29:** Miscellaneous musical instruments and other objects stored in interior of Building 87.

**Photograph 30:** Exterior of Building 87.

**Photograph 31:** Layered concrete lot within Drum Lot 2.

**Photograph 32:** Various earthen material and rubble piles observed in Drum Lot 2.

**Photograph 33:**

**Building 24** observed to be small, un-enclosed non-structurally sound structure at southern end of Drum Lot 2.

**Photograph 34:** Wooden telephone poles observed within Drum Lot 2.

**Photograph 35:** Water tanks observed in landfill area.

**Photograph 36:** Drum and various pieces of equipment observed in landfill area.

**Photograph 37:** Water storage tanks observed in landfill area.

**Photograph 38:** Paint chipping observed on sides of houses in residential area.

**Photograph 39:** Garage doors have caved in and roofs have collapsed in several areas within the **residential** area.

**Photograph 40:** Interior of garage within residential area filled with various junk and debris.

**Photograph 41:** Hole observed in foundation between front door and walkway of house within residential area.

**Photograph 42:** Wiring cut from utility poles and exposed wire hanging in front of entrance doors of houses within residential area.

**Photograph 43:** Old playground observed within residential area.

**Photograph 44:** Interior of house within residential area.

**Photograph 45:** Rusted and cut water valves observed in residential area.

**Photograph 46:** Large AST observed on southern end of Building 13.

**Photograph 47:** Conex boxes, vehicles, wood pallets, construction materials and debris observed on eastern perimeter of Building 13.

**Photograph 48:** Several rusted drums observed on eastern perimeter of Building 13; contents unknown.

**Photograph 49:** Gas cylinders observed in interior of Building 123.

**Photograph 50:** Various boats, camper vans, and buses observed along perimeter of Building 123.

**Photograph 51:** Various cars, trucks, boats, and campers observed along the perimeter of Buildings 21 and 17.

**Photograph 52:** Rusted gas canisters observed along the exterior of the eastern perimeter of Building 85.

**Photograph 53:** Drum of absorbent material observed in middle of yard on exterior perimeter of Building 85.

**Photograph 54:** Stockpiled sign poles observed in middle of yard on exterior perimeter of Building 85.

**Photograph 55:** Stockpiled streetlights observed in middle of yard on exterior perimeter of Building 85.

**Photograph 56:** Flammable cabinet containing partially empty buckets and paint cans observed on exterior of Building 85.

**Photograph 57:** AST observed on exterior perimeter of Building 73.

**Photograph 58:** Additional small AST behind Building 73.

**Photograph 59:** Exterior of Building 73.

**Photograph 60:** AST observed on turnout of Building 66. Sign reads “TX-66, 109 gallons”.

**Photograph 61:** Exterior of Building 10. One sign remains reading "Danger: flammable liquids and vapor".

**Photograph 62:** Dilapidated ramp on north perimeter of Building 10.