

ADDITIONAL PHASE II SUBSURFACE INVESTIGATION REPORT

Whittram Fontana
14253, 14315, and 14339 Whittram Avenue
Fontana, California 92335

February 11, 2020
Partner Project Number: SM19-259094

Prepared for:
Dedeaux Properties
1430 South Eastman Avenue
Los Angeles, California 90023



February 11, 2020

Mr. Alex Filler
Dedeaux Properties
1430 South Eastman Avenue
Los Angeles, California 90023

Subject: Additional Phase II Subsurface Investigation Report
Whittram Fontana
14253, 14315, 14339 Whittram Avenue
Fontana, California 92335
Partner Project No. SM19-259094

Dear Mr. Filler:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the Additional Phase II Subsurface Investigation (Additional Phase II) performed at the above-referenced property (hereafter, the Site). The following report describes the field activities, methods, and findings of the Additional Phase II investigation.

This investigation was performed utilizing methods and procedures consistent with good commercial or customary practices designed to conform to acceptable industry standards. The independent conclusions represent Partner's best professional judgment based upon existing conditions and the information and data available to us during this assignment.

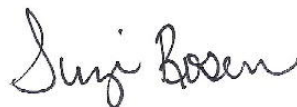
We appreciate the opportunity to provide these services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact Suzi Rosen at (949) 214-6470 / srosen@partneresi.com.

Sincerely,

Partner Engineering and Science, Inc.



David Horrell
Staff Scientist



Suzi Rosen, PG, CHg
Technical Director – Site Mitigation

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1.0 INTRODUCTION

1.1 Purpose

The purpose of the investigation was to further assess volatile organic compound (VOC), total petroleum hydrocarbon (TPH), and metals impacts to soil and/or soil gas above regulatory screening levels previously identified at boring locations SB-2 (soil), SB-8 (soil and soil gas), and SB-6 and SB-15 (soil gas). The investigation was also performed to provide soil waste characterization data (waste profiling) in preparation for redevelopment activities.

1.2 Limitations

This report presents a summary of work performed by Partner. The work includes observations of Site conditions encountered and the analytical results provided by an independent third-party laboratory of samples collected during the project. The number and location of samples were selected to provide the required information. However, it cannot be assumed that the limited available data are representative of subsurface conditions in areas not sampled.

Conclusions and/or recommendations are based on the observations, laboratory analyses, and the governing regulations. Conclusions and/or recommendations beyond those stated and reported herein should not be inferred from this document.

Partner warrants that the environmental consulting services contained herein were accomplished in accordance with generally-accepted practices in the environmental engineering, geology, and hydrogeology fields that existed at the time and location of work. No other warranties are implied or expressed.

1.3 User Reliance

Partner was engaged by Dedeaux Properties (the Client), or their authorized representative, to perform this investigation. The engagement agreement specifically states the scope and purpose of the investigation, as well as the contractual obligations and limitations of both parties. This report and the information therein, are for the exclusive use of the Client. This report has no other purpose and may not be relied upon, or used, by any other person or entity without the written consent of Partner. Third parties that obtain this report, or the information therein, shall have no rights of recourse or recovery against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, the Addressee and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such use. Unauthorized use of this report shall constitute acceptance of, and commitment to, these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted.

This report has been written under the Terms and Conditions of the Master Services Agreement (MSA) between Dedeaux and Partner relating to scope, relying parties, limitations of liability, indemnification, dispute resolution, and other factors relevant to any reliance on this report. Any parties relying on this report do so having accepted the Terms and Conditions for which this report was written.

2.0 SITE BACKGROUND

2.1 Site Description

The Site is approximately 10 acres in size and is located at 14253, 14315, and 14339 Whittram Avenue on the south side of Whittram Avenue in Fontana, California. Please refer to Figure 1 for a Site Plan and Figure 2 for a Topographic Site Vicinity Map.

2.2 Current Property Use

The property at 14253 Whittram Avenue (west parcel), also identified as APN 0230-122-19-0000, is currently occupied for residential use with private storage of cars/trucks, steel containers and earthmoving equipment. In addition to the single residential structure currently located on the parcel, this parcel is improved with a steel canopy cover which is used for private auto repair. The unoccupied area of this parcel is equipped with fire hydrants and hose connections. The majority of the parcel is unpaved. Partner observed trash and miscellaneous debris on the southwestern portion of the parcel and stained soils on the west-northwest portion of the parcel.

The property at 14315 Whittram Avenue (center parcels), also identified as APNs 0230-132-23-0000 and 0230-132-13-0000, is currently vacant with two unoccupied wood structures. In addition to the current structures, the parcels are improved with concrete foundations on the north associated with historical structures. The majority of the property is unpaved with some gravel. Partner observed trash and debris on the southeast and southwest areas of the parcels.

The property at 14339 Whittram Avenue (east parcel), also identified as APN 0230-132-14-0000, is currently occupied by Advanced Steel Recovery (ASR) with storage of multiple steel containers and one small unoccupied wood structure. It should be noted that ASR occupies the adjacent property to the east, which is currently identified as an active Department of Toxic Substances Control (DTSC) site with a voluntary cleanup status. The majority of the parcel is unpaved.

The Site is designated for regional industrial development by the County of San Bernardino.

The Site was identified as a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG), RCRA Non Generator/No Longer Generated (NonGen/NLR), Facility Index System/ Facility Registry System (FINDS), Facility and Manifest Data (HAZNET), California Environmental Reporting System (CERS), California Integrated Water Quality System Projects (CIWQS), Enforcement and Compliance History Online (ECHO), Waste Discharge System (WDS), National Pollutant Discharge Elimination System (NPDES), and San Bernardino County Permit site in the regulatory database report, as further discussed in Section 4.2.

2.3 Site History

According to documents provided by the Client, a Baseline Environmental Site Assessment was performed in 2012 (Report date April 20, 2012) at the eastern portion of the Site at 14339 Whittram Avenue. Stantec Consulting Services, Inc. (Stantec) advanced six borings with a hand auger to approximately one-foot bgs.

Six soil samples were collected (one from each boring) and analyzed for VOCs, TPH, and metals. Laboratory results indicated that concentrations were below the regulatory screening levels for the chemicals/metals tested; however, it was noted that the results were not indicative of the entire Site.

Partner performed a Phase I Environmental Site Assessment (Phase I) at the Site in 2019. Based on Partner's review of historical information, the Site has been occupied by wrecking yards, dismantling salvage yards, truck/trailer repair, recycling, and a wood recycling center. Previous Site tenants used and generated hazardous material and hazardous waste. The San Bernardino County Fire Department (SBCFD) issued violations to former tenants for improper handling of hazardous substances and improper labeling of hazardous containers. The Site is primarily unpaved, has been subject to incidental vehicle/equipment spills over the unpaved areas and was reportedly stained.

Partner's Phase I also discovered a previous Phase I performed by Hazard Management Consulting (HMC) dated May 23, 2019, and an HMC Phase II report dated September 13, 2019 which included a soil and soil gas survey. HMC advanced 15 borings to depths between 5 and 15 feet bgs and collected 35 soil samples and 15 soil gas samples. Please see Table 1 for a summary of sample depths and analysis of the HMC Phase II results. HMC discovered elevated concentrations of ethylbenzene, m,p-xylene, o-xylene, lead, and chromium in soil and elevated concentrations of ethylbenzene in soil gas at various locations across the Site. Based on the results of the HMC Phase II, Partner concluded that releases of hazardous substances had impacted the subsurface beneath the Site (previous borings SB-2, SB-6, SB-8, and SB-15; Figure 3), but the extent of impacts was not established laterally or vertically.

Therefore, Partner subsequently performed the Additional Phase II investigation to further evaluate the extent of impacts beneath the Site.

2.4 Geology and Hydrogeology

The 2018 United States Geological Survey (USGS) Fontana California Quadrangle 7.5-minute series topographic map indicates the Site is located at approximately 1,160 to 1,175-feet above mean sea level (MSL; see Figure 2). The contour lines in the area of the Site indicate the area slopes gently toward the southwest. Improvements, with the exception of roadways, are not depicted on the 2018 map.

According to topographic map interpretation, the direction of groundwater flow in the vicinity of the Site is inferred to be toward the southwest. The nearest surface water in the vicinity of the Site is the West Fontana Channel located directly south of the Site. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the Site during this assessment.

According to available information, a public water system operated by the Fontana Water Company (FWC) serves the Site vicinity. According to available information obtained from the FWC website, shallow groundwater beneath the Site is not utilized for domestic purposes. The sources of public water for the City of Fontana are 60% groundwater, 6% local surface water, and 34% imported water from the State Water Project.

According to a previous subsurface investigation performed on an adjacent property (14451 Whittram Avenue; Open Case #60002306), the depth to groundwater in the Site vicinity is approximately 200 to 250 feet below ground surface (bgs).

The Site is situated within the Peninsular ranges of the geomorphic province of the State of California. The Peninsular range is a series of ranges separated by northwest trending valleys and traversed by several major active faults. The Whittier-Elsinore, San Jacinto, Newport-Inglewood, and San Andreas faults are major active fault systems located in the vicinity of the Site. Major tectonic activity associated with these and other faults within this regional tectonic framework are typically right-lateral strike-slip movements. The Peninsular ranges extend into lower California, are bound to the east by the Colorado River, and extend into the Los Angeles Basin and the island group surrounding the continental shelf.

3.0 FIELD ACTIVITIES

Please refer to Table 1 for a summary of the borings, sampling schedule and laboratory analyses for this investigation and previous investigations at the Site. The scope of the Additional Phase II Subsurface Investigation included a geophysical survey and the advancement of 32 borings (eight step-out borings around previous boring locations SB-2, SB-6, SB-8, and SB-15) for the collection of representative soil and soil gas samples.

3.1 Preparatory Activities

Prior to the initiation of fieldwork, Partner performed the following activities.

3.1.1 Utility Clearance

Partner delineated the work area with white spray paint and notified Underground Service Alert (USA) to clear public utility lines as required by law at least 48 hours prior to drilling activities. USA issued ticket number A193180330 for the project on November 14, 2019.

In addition, Partner subcontracted with Ground Penetrating Radar Systems (GPRS) on November 14, 2019 to clear boring locations of utilities. GPRS systematically free-traversed each proposed boring location using a Sensors and Software Noggin ground penetrating radar (GPR) unit and electromagnetic induction (EM) equipment, and/or utility tracers to identify utility lines, subsurface anomalies, and other subsurface features of potential concern. Boring locations were adjusted as necessary and the upper two to five feet of each boring was manually excavated with a hand-auger. Please see Appendix A for a copy of the GPRS summary report.

3.1.2 Site Specific Health and Safety Plan

Partner prepared and implemented a Site-specific Health and Safety Plan (HASP) with on-Site personnel involved in the project prior to the commencement of drilling activities. A copy of the Site-specific HASP is provided in Appendix B.

3.2 Drilling Equipment

On November 19 through 27, 2019, Partner subcontracted with BC2 Environmental, Inc. (BC2), a State of California C57 contractor (license number 1051275), to provide and operate drilling equipment. BC2, under the oversight of Partner, advanced 29 borings to their termination depths or refusal with a Truck Mounted Geoprobe 6600 direct-push rig and advanced 3 borings with a limited-access, Geoprobe 420M direct-push drill rig. Drilling and sampling equipment arrived pre-cleaned. Downhole equipment and materials were decontaminated in a detergent / tap water wash and double-rinsed with tap water or with a pressure washer between samples and/or borings to reduce the potential for cross-contamination.

3.3 Boring Locations and Depths

Please see Figure 3 for a map of the boring locations and Table 1 for a summary of the total depths and the sampling and analysis schedule.

Borings SB2-N1 and SB2-N2 were advanced 15 and 30 feet north of the previous boring SB-2, respectively; borings SB2-E1 and SB2-E2 were advanced 15 and 30 feet east of SB-2, respectively; borings SB2-S1 and SB2-S2 were advanced 15 and 30 feet south of SB-2, respectively; and SB2-W1 and SB2-W2 were advanced 15 and 30 feet west of SB-2, respectively. Similarly, eight borings (SB6-N1, SB6-N2, SB6-E1, SB6-E2, SB6-S1, SB6-E2, SB6-W1, and SB6-W2) were advanced in a step-out pattern at distances of 50 and 100 feet from previous boring SB-6 in the four cardinal directions. Eight borings (SB8-N1, SB8-N2, SB8-E1, SB8-E2, SB8-S1, SB8-E2, SB8-W1, and SB8-W2) were also advanced in a step-out pattern at distances of 50 and 100 feet from previous boring SB-8 in the four cardinal directions. Additionally, eight borings were advanced in a step-out pattern from previous boring SB-15; however, the distances were not consistent due to surface obstructions at the Site. Borings SB15-N1 and SB15-N2 were advanced 50 and 100 feet north of SB-15, respectively; borings SB15-E1 and SB15-E2 were advanced 30 and 60 feet east of SB-15, respectively; borings SB15-S1 and SB15-S2 were advanced 30 and 60 feet south-southwest of SB-15; and borings SB15-W1 and SB15-W2 were advanced 40 and 100 feet west of boring SB-15. The soil borings were planned to be advanced to 25 feet bgs; however, refusal at shallower depths occurred at many of the boring locations due to difficult drilling conditions.

Soil gas probes were installed within borings SB6-N1, SB6-N2, SB6-E1, SB6-E2, SB6-S1, SB6-E2, SB6-W1, SB6-W2, SB8-N1, SB8-N2, SB8-E1, SB8-E2, SB8-S1, SB8-E2, SB8-W1, SB8-W2, SB15-N1, SB15-N2, SB15-E1, SB15-E2, SB15-S1, SB15-E2, SB15-W1, and SB15-W2. Soil gas probes were proposed at 5, 15, and 25 feet bgs in each boring. However, due to refusal at shallower depths, many of the soil gas probe depths were altered or eliminated. Please refer to Table 1 for a summary of the total depths achieved at each boring location and the depths of soil gas probes installed.

3.4 Soil Sampling Methodology

Soil was collected using a dual-tube sampler. The direct-push drill rig advanced 4-foot long by 2.0-inch diameter outer casing into the subsurface. An inner drill string consisting of a 4-foot long by 1.125-inch diameter acetate liner connected to 1.25-inch diameter center rods was driven into the subsurface flush with the lead outer casing to allow undisturbed soil to enter the open liner. The inner drill string was retrieved from the cased boring to recover the soil-filled liner. A lengthwise section of each acetate liner was removed with a splitting tool to expose the soil core. Soil sampling proceeded until the termination depth was met or refusal occurred.

The soil cores and samples were visually inspected for discoloration, monitored for odors, and classified in accordance with the Unified Soil Classification System (USCS). In addition, soil from select intervals was placed in sealable plastic bags and field-screened for VOCs with a calibrated photoionization detector (PID).

Soil properties, descriptions and PID readings were recorded on boring logs which are presented in Appendix C.

3.5 Soil Gas Sampling

3.5.1 Soil Gas Probe Construction

Semi-permanent nested soil gas probes were constructed within the borings after soil sampling to the terminal depth. New ¼-inch diameter Nylaflow tubing with an inert vapor implant at the terminal end was inserted into the boring to the deepest desired sampling depth. Sand was poured into the boring annulus to form an approximately one-foot thick sand pack around the vapor implant and approximately one foot of dry, granular bentonite was placed atop the sand pack. The boring annulus was backfilled with hydrated bentonite to the next desired sampling depth where another soil gas probe was similarly constructed. Upon installation of the shallowest probe, the remainder of the boring annulus was backfilled with hydrated bentonite to approximately 6 inches bgs to form a seal. The outer casing was retrieved from the boring as the soil gas probes were constructed. Each soil gas probe was fitted with a valve on the sampling end of the tubing and labeled for identification. A 5-inch diameter, flush-mounted, traffic-rated vault was installed at the ground surface within a concrete pad to house the soil gas probes. Please see Figure 4 for a soil gas monitoring probe construction diagram.

3.5.2 Soil Gas Sampling

Soil gas samples were collected in accordance with the July 2015 DTSC and LARWQCB “Advisory – Active Soil Gas Investigations.” Partner subcontracted with Sunstar Laboratories, Inc. (Sunstar), a state-certified stationary laboratory (SWRCB Environmental Laboratory Accreditation Program [ELAP] certificate number 2250) to provide soil gas sampling equipment (summa canisters, manifolds, valves, and tubing) and perform laboratory analysis. A shut-in test was performed to identify potential leaks in the sampling train and fittings were adjusted as necessary prior to purging and sampling each probe. Each soil gas probe was allowed to equilibrate for at least 48 hours after installation prior to sampling with gas-tight, stainless steel summa canisters. Approximately three purge volumes were removed from each soil gas probe prior to sample collection. Each sample was collected in summa canisters and transferred under chain-of-custody to Sunstar’s stationary laboratory in Lake Forest, California.

As part of the laboratory quality assurance / quality control (QA/QC) protocol, the laboratory analyzed instrument and sampling blanks to evaluate the potential for cross-contamination from the laboratory equipment and/or sampling materials. No contaminants of concern (COC) were identified in the sample blanks. A tracer gas of isopropyl alcohol was placed around each probe at the ground surface while sampling to evaluate the potential for ambient air intrusion. The tracer gas was included on the list of target analytes as tentatively identified compounds (TICs) and was not detected in the analyzed soil gas samples at concentrations indicating the integrity of the soil gas probes was maintained. Recovery of surrogate compounds included with each analysis were within acceptable limits and/or did not affect data

interpretation. Laboratory QA/QC documentation is included in the laboratory analytical reports attached as Appendix D at the end of the report.

3.6 Investigation-Derived Waste

Investigation-derived waste (IDW) (e.g., soil cuttings) was containerized in a single labeled 55-gallon steel drum approved by the Department of Transportation (DOT) and stored on-Site, pending waste profiling. The IDW will be transported under waste manifest documentation to permitted receiving facilities for recycling, treatment, and/or disposal.

4.0 LABORATORY ANALYSIS

4.1 Laboratory Analysis

Partner collected a total of 93 soil samples and 62 soil gas samples which were transferred under chain of custody protocol to Sunstar's state-certified stationary lab (SWRCB ELAP certificate number 2250) in Lake Forest, CA for analysis. Soil samples were analyzed for volatile organic compounds (VOCs) in accordance with EPA Method 8260B, total petroleum hydrocarbons (TPH) in accordance with EPA Method 8015M, and Title 22 metals in accordance with total threshold limit concentration (TTL) EPA Method 6010B/7471A. Samples with metals results exceeding 10x soluble threshold limit concentrations (STLC) were analyzed for STLC waste extraction test (WET).

Each soil gas sample was analyzed for VOCs in accordance with EPA Method TO-15.

Please see Table 1 for a summary of the samples analyzed and laboratory analyses performed. Laboratory analytical reports are included in Appendix D and discussed below.

4.1.1 Soil Sample Analytical Results

Based on results from the previous HMC Phase II performed on-Site, the primary contaminants of concern (COCs) in soil were TPH in the diesel range (TPH-d), TPH in the motor oil range (TPH-o; at SB-2, SB-6, and SB-8), benzene, toluene, ethylbenzene, and xylenes (BTEX) VOCs (SB6 and SB-8), and metals (lead in SB-2, and arsenic in SB-15).

No VOCs were detected above their respective laboratory practical quantitative limits (PQLs) in the soil samples analyzed during this investigation.

Gasoline range hydrocarbons (TPH-g) were detected in 1 soil sample (SB2-E1-1') at a concentration of 14 milligrams per kilogram (mg/kg), and TPH-d was detected in 9 samples at concentrations ranging from 10 to 880 mg/kg with the highest concentration in sample SB8-E2-1'. TPH-o was detected in 29 of the 93 soil samples analyzed at concentrations ranging from 14 to 850 mg/kg, with the highest concentration in sample SB8-W1-1'.

Several metals were detected in one or more soil samples collected at the Site including lead, molybdenum, nickel, vanadium, zinc, silver, arsenic, barium, beryllium, cadmium, chromium, cobalt, and copper. Lead was detected in 87 samples at concentrations ranging from 2.8 to 100 mg/kg with the highest concentration in sample SB2-E1-1'. Molybdenum was detected in one sample, SB8-W1-1' at a concentration of 5.5 mg/kg. Nickel was detected in all 93 samples at concentrations ranging from 3.8 to 67 mg/kg with the highest concentration in sample SB8-W1-1'. Vanadium was detected in all 93 samples at concentrations ranging from 11 to 320 mg/kg with the highest concentration in sample SB15-S1-1'. Zinc was also detected in all 93 samples at concentrations ranging from 14 to 210 mg/kg with the highest concentration in sample SB2-E1-1'. Silver was detected in one sample, SB15-S1-1' at a concentration of 2.7 mg/kg. Arsenic was detected in 7 samples at concentrations ranging from 5.2 to 35 mg/kg with the highest concentration in sample SB2-E1-10'. Barium was detected in all 93 samples at concentrations ranging from 12 to 300 mg/kg with the

highest concentration in sample SB8-W1-1'. Beryllium was detected in one sample, SB6-S1-10' at a concentration of 1.5 mg/kg. Cadmium was detected in 4 samples at concentrations ranging from 2.0 to 2.1 mg/kg with the highest concentration in samples SB2-E1-1', SB6-S1-10', and SB8-W1-1'. Chromium was detected in all 93 samples at concentrations ranging from 4.8 to 540 mg/kg with the highest concentration in sample SB8-W1-1'. Cobalt was detected in all 93 samples at concentrations ranging from 3.1 to 8.5 mg/kg with the highest concentration in sample SB8-E2-10'. Copper was detected in all 93 samples at concentrations ranging from 5.4 to 180 mg/kg with the highest concentration in sample SB2-E1-1'.

Please refer to Tables 2 through 4 for a summary of the analytical results of soil samples collected at the Site.

4.1.2 Soil Gas Sample Analytical Results

Based on results from the previous Phase II performed on-Site, VOCs and specifically BTEX compounds were the primary COCs in soil gas in the vicinity of SB-6, SB-8, and SB-15.

Twenty-four VOCs were detected in one or more of the 62 soil gas samples collected at the Site. Detected VOCs included tetrachloroethene (PCE) (56 samples), trichloroethene (TCE) (27 samples), cis-1,2-dichloroethene (DCE) (2 samples), benzene (12 samples), toluene (61 samples), ethylbenzene (47 samples), m,p-xylenes (60 samples), o-xylenes (53 samples), acetone (54 samples), chloroform (9 samples), heptane (2 samples), hexane (12 samples), 1,3-butadiene (3 samples), dichlorodifluoroethane (8 samples), carbon disulfide (11 samples), tetrahydrofuran (1 sample), trichlorofluoromethane (39 samples), 1,3,5-trimethylbenzene (TMB) (22 samples), 1,2,4-TMB (47 samples), 2-butanone (38 samples), methyl-isobutyl ketone (19 samples), and isopropyl alcohol (21 samples).

Based on previous reports and concentrations detected, PCE, TCE, benzene, toluene, ethylbenzene, xylenes, chloroform, 1,3-butadiene, and 1,2,4-TMB were considered COCs. Concentrations of PCE ranged from 3.1 to 580 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) with the highest concentration in sample SB6-N2-5'. TCE concentrations ranged from 1.6 to 150 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB6-N2-25'. Concentrations of benzene ranged from 0.76 to 15 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB15-E2-5'. Concentrations of toluene ranged from 3.8 to 760 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB6-W2-22'. Concentrations of ethylbenzene ranged from 1.5 to 320 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB8-E2-25'. Concentrations of m,p-xylenes and o-xylenes ranged from 1.6 to 1,600 $\mu\text{g}/\text{m}^3$ and 0.19 to 560 $\mu\text{g}/\text{m}^3$, respectively, with the highest concentrations in sample SB8-E2-25'. Concentrations of chloroform ranged from 1.6 to 23 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB6-W2-22'. Concentrations of 1,3-butadiene ranged from 3.0 to 6.1 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB15-E2-5'. Concentrations of 1,2,4-TMB ranged from 1.7 to 2,800 $\mu\text{g}/\text{m}^3$ with the highest concentration in sample SB8-E2-25'.

Please refer to Table 6 for a cumulative summary of the soil gas sample VOCs laboratory analysis results.

5.0 DISCUSSION

Please refer to Tables 2 through 6 for a summary of the soil and soil gas laboratory analytical results and Appendix D for the laboratory analytical reports. The tables include comparisons of the analytical results with the appropriate screening levels and/or calculated soil gas screening levels (SGSLs).

5.1 Regulatory Agency and Waste Characterization Comparison Criteria

Maximum Soil Screening Levels

Maximum Soil Screening Levels (SSLs) are concentrations of petroleum hydrocarbons that are allowed to remain in soil without potentially degrading the quality of groundwater underlying a site. Maximum SSLs are established and enforced by the Los Angeles Regional Water Quality Control Board (LARWQCB).

Department of Toxic Substances Control Attenuation Factor and Regional Screening Levels

Regional Screening Levels (RSLs) are generic, risk-based chemical concentrations developed by the EPA for use in initial screening-level evaluations for soil vapor. RSLs combine human health toxicity values with standard exposure factors to estimate contaminant concentrations that are considered to be health protective of human exposures over a lifetime through direct-contact exposure pathways (e.g., via inhalation and/or ingestion of and/or dermal contact with impacted soil and/or indoor air). RSLs are not legally enforceable standards, but rather are considered guidelines to evaluate if potential risks associated with encountered chemical impacts may warrant further evaluation.

The DTSC Office of Human and Ecological Risk (HERO) developed California-Modified RSLs based on a review of 1) RSL concentrations, and 2) recent toxicity values.

While soil gas detections are not immediately comparable to the indoor air quality guidelines within the RSLs, the DTSC issued a recommended default attenuation factor of 0.03 for sub-slab soil gas and near-source exterior soil gas in the June 2015 document Office of Solid Waste and Emergency Response (OSWER) Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air. With the subsurface contaminant concentrations and default attenuation factors, the associated contaminant concentrations in indoor air can be estimated as Calculated Residential and Commercial/Industrial Soil Gas Screening Levels (SGSLs).

Arsenic Regional Background Concentration

TTLc arsenic concentrations are compared to the California regional background concentration of 12.0 mg/kg established by the DTSC in the 2012 document titled "Determination of a Southern California Regional Background Arsenic Concentration in Soil".

Soluble Threshold Limit Concentrations

In addition to the regulatory screening level analysis describe above, the TTLc metals in soil analytical results were compared to TTLc values, and 10 times (x) the STLc to evaluate the soil for waste characterization

purposes. Samples with concentrations exceeding 10x the STLC were run for STLC WET analysis and were compared to respective STLC values.

5.2 Discussion

5.2.1 Soil Discussion

Previous soil samples from borings SB-6 and SB-8 collected during the HMC Phase II contained trace amounts of ethylbenzene and xylenes; however, VOCs were not detected above their laboratory PQLs in any samples collected and analyzed as part of this investigation. VOCs have also not been detected at concentrations above commercial/industrial screening levels in any of the samples historically collected from the Site.

Likewise, gasoline, diesel, and oil range hydrocarbons were detected in several soil samples; however, none have been detected above the commercial/industrial screening levels established by the Los Angeles Regional Water Quality Control Board (LARWQCB).

Of the 13 metals detected during the investigation, only arsenic in one sample exceeded the respective regulatory screening levels (in this case, the regional background concentration). Arsenic was detected at 35 mg/kg in sample SB2-E1-10' which is depicted on Figure 5. The 1-foot and 5-foot samples from this boring did not detect arsenic above 5 mg/kg. No other metals have exceeded regulatory screening levels at the Site.

The TTLC metals analytical results were also used to characterize the soil for waste profiling if soil requires removal from the Site. TTLC concentrations of metals were compared to TTLC values and 10x the STLC values. No samples exceeded the TTLC, and eight samples exceeded the 10x STLC value. Samples SB2-E1-1', SB2-S1-1', and SB15-N1-1' exceeded 50 mg/kg of lead and samples SB8-N2-1', SB8-E2-1', SB8-S2-1', SB8-W1-1', and SB15-S1-1' exceeded 50 mg/kg of chromium. The respective WET for lead or chromium was performed on these samples and the results were compared to the respective STLC. None of the results exceeded the STLC with concentrations of lead ranging from 1.9 to 2.6 mg/L, and concentrations of chromium ranging from <0.25 to 1.4 mg/L. Consequently, the soil will be characterized as non-hazardous if removed from the Site during re-development activities. Please see Table 5 for a summary of the results of the WET analyses for lead and chromium, and Figure 6 for the locations of exceedances and results.

5.2.2 Soil Gas Discussion

Based on the results from HMC's Phase II, VOCs and specifically BTEX compounds were the primary COCs in soil gas in the vicinity of SB-6, SB-8, and SB-15. Concentrations of m,p-xylenes and o-xylenes exceeded the commercial/industrial SGSL in all three samples, and ethylbenzene and o-xylenes exceeded their respective commercial/industrial SGSL in sample SB-15. Partner sampled soil gas in a step-out pattern, advancing borings approximately 50-feet and 100-feet, in each cardinal direction from these locations to delineate the impacts to soil gas.

Twenty-four VOCs were detected in one or more of the 62 soil gas samples collected at the Site. The majority of VOCs detected were below their respective commercial/industrial SGSLs. Detected concentrations of PCE, TCE, benzene, m,p-xylenes, chloroform, 1,3-butadiene, and 1,2,4-TMB exceeded commercial/industrial SGSLs in one or more soil gas samples from the current investigation. Please see Figure 7 for locations of soil gas detections exceeding the regulatory screening levels.

Of the 62 analyzed soil gas samples, PCE was detected in 56 and TCE in 27 samples. PCE and TCE exceeded their commercial/industrial SGSLs in nine and one samples across the Site, respectively. Partner noted that four samples (SB8-E2-25', SB8-S2-5', SB8-S2-15', and SB15-N2-15') required dilution due to elevated concentrations of other VOCs.

Benzene exceeded the commercial/industrial SGSL at one location, sample SB15-E2-1', and m,p-xylenes exceeded the commercial/industrial SGSL at two sample locations, SB8-E2-25' and SB8-S2-5'. Unlike the previous HMC investigation, detected concentrations of ethylbenzene or o-xylenes did not exceed their respective commercial/industrial SGSLs. The highest concentrations of BTEX compounds in soil gas samples were not detected near the highest detected concentrations during the HMC Phase II investigation.

Other VOCs that exceeded their respective commercial/industrial SGSLs included chloroform, 1,2,4-TMB, and 1,3-butadiene. Chloroform and 1,2,4-TMB were each detected in one sample, SB6-W2-22' for chloroform, and SB8-E2-25' for 1,2,4-TMB. Since these compounds were only detected above the applicable SGSL in a single sample at depth, they were not deemed a major concern at the Site. 1,3-butadiene was detected at all three sample depths from the same boring (SB15-E2) above the commercial/industrial SGSL. A common source of 1,3-butadiene is gasoline or gasoline fumes. Because the elevated concentrations of 1,3-butadiene were identified only at SB15-E2, it is possible that a localized release of gasoline occurred in the vicinity of SB15-E2.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Partner advanced 32 borings to collect soil and soil gas samples during this investigation. A total of 93 soil samples were analyzed for VOCs, TPH, and metals, and 62 soil gas samples were analyzed for VOCs at a state-certified laboratory. Soil and soil gas samples were collected to further assess subsurface impacts described in the Phase II performed previously at the Site by HMC. As stated previously, the analytical results were also used to characterize the soil if off-site removal of soils may be required for redevelopment.

Concentrations of VOCs and TPH have not been detected at concentrations exceeding regulatory screening levels in any of the samples historically collected and analyzed from the Site.

Only one sample (SB2-E1-10') exceeded the background concentration of arsenic in soil, and samples collected from 1- and 5- feet from this same location were non-detect above 5 mg/kg.

Several samples contained lead and chromium at concentrations that did not exceed the regulatory criteria but did exceed 10x the STLC; however, none of the samples exceeded their respective STLCs.

Based on the results of the soil analysis, there is no regulatory driver for soil remediation and/or management at the Site. Partner recommends developing and implementing a Soil Management Plan (SMP) to be used during re-development activities. If soil is to be removed from the Site, the waste characterization data from this investigation should be provided to the selected disposal facility.

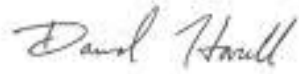
In general, VOC impacts to soil gas exceeding commercial/industrial screening levels are present primarily in the central and southeastern portions of the Site. It is Partner's understanding that the upper 10 feet of soil at the Site will be re-worked as part of planned redevelopment activities and that the entire Site will be capped with either concrete or asphalt. Consequently, it is Partner's opinion that no further action is warranted regarding soil vapor at the Site given the proposed redevelopment plan.

7.0 SIGNATURES OF PARTICIPATING PROFESSIONALS

Thank you for the opportunity to be of service. If you have questions regarding this report, please contact the undersigned at (310) 615-4500.

Sincerely,

Partner Engineering and Science, Inc.



David Horrell
Project Geologist – Site Mitigation



Suzi Rosen, PG 7622, CHg 1075
Technical Director - Site Mitigation

8.0 REFERENCES

- Agency for Toxic Substances & Disease Registry, Public Health Statement for 1,3-Butadiene, Website, September 2012. atsdr.cdc.gov/phs/phs.asp?id=457&tid=81
- California Department of Toxic Substances Control, Determination of a Southern California Regional Background Arsenic Concentration in Soil, 2008.
- California Department of Toxic Substances Control Human and Ecological Risk Office, Note 3, DTSC-modified Screening Levels (DTSC-SLs), April 2019.
- California Environmental Protection Agency Department of Toxic Substances Control, Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), October 2011.
- California Environmental Protection Agency Department of Toxic Substances Control Los Angeles Regional Water Quality Control Board and San Francisco Regional Water Quality Control Board, Advisory – Active Soil Gas Investigations, July 2015.
- United States Geological Survey Topographic Map 2018, 7.5-minute series, Fontana Quadrangle, California – Los Angeles County, scale 1:24,000.
- United States Geological Survey Topographic Map 2018, 7.5-minute series, Guasti Quadrangle, California – Los Angeles County, scale 1:24,000.

TABLES

Table 1 - Summary of Investigation Scope

Boring Identification	Date Drilled	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths (feet bgs)	Target Analytes
Stantec Baseline Environmental Site Assessment (April 2012)						
HA-1	11/27/2019	14339 Whittram Ave, Northwest corner of property	1	Soil	1	VOCs, TPH, Metals
HA-2	11/27/2019	14339 Whittram Ave, North-Central portion of property	1	Soil	1	VOCs, TPH, Metals
HA-3	11/27/2019	14339 Whittram Ave, Northeast portion of property	1	Soil	1	VOCs, TPH, Metals
HA-4	11/27/2019	14339 Whittram Ave, Central portion of property	1	Soil	1	VOCs, TPH, Metals
HA-5	11/27/2019	14339 Whittram Ave, Southwest corner of property	1	Soil	1	VOCs, TPH, Metals
HA-6	11/25/2019	14339 Whittram Ave, Southeast corner of property	1	Soil	1	VOCs, TPH, Metals
HMC - Soil and Soil Gas Investigation (September 2019)						
HMC SB-1	8/22/2019	14253 Whittram Ave, Northwest corner of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-2	8/22/2019	14253 Whittram Ave, North portion of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-3	8/22/2019	14315 Whittram Ave, Northwest corner of property	15	Soil	1,5,10,15	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-4	8/22/2019	14315 Whittram Ave, Northeast corner of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-5	8/23/2019	14339 Whittram Ave, Northeast corner of property	5	Soil	SS, 1, 15	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-6	8/22/2019	14253 Whittram Ave, West-central portion of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-7	8/22/2019	14253 Whittram Ave, East-central portion of property	15	Soil	1,5,10,15	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-8	8/22/2019	14315 Whittram Ave, West-central portion of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-9	8/22/2019	14315 Whittram Ave, East-central portion of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs

Table 1 - Summary of Investigation Scope

Boring Identification	Date Drilled	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths (feet bgs)	Target Analytes
HMC SB-10	8/23/2019	14339 Whittram Ave, East-central portion of property	15	Soil	1,5,10,15	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-11	8/22/2019	14253 Whittram Ave, Southwest corner of property	15	Soil	1,5,10,15	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-12	8/22/2019	14253 Whittram Ave, Southeast corner of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-13	8/22/2019	14315 Whittram Ave, Southwest corner of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-14	8/22/2019	14315 Whittram Ave, Southeast corner of property	15	Soil	1,5,10,15	VOCs, TPH, Metals
				Soil Gas	5	VOCs
HMC SB-15	8/23/2019	14339 Whittram Ave, Southern portion of property	5	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
Partner - Additional Phase II Subsurface Investigation (November 2019)						
SB2-N1	11/27/2019	14253 Whittram Ave, 15' North of SB-2	24*	Soil	1, 5, 10, 15, 24	VOCs, TPH, Metals
SB2-N2	11/27/2019	14253 Whittram Ave, 30' North of SB-2	24*	Soil	1, 5, 10, 15, 24	VOCs, TPH, Metals
SB2-E1	11/27/2019	14253 Whittram Ave, 15' East of SB-2	24*	Soil	1, 5, 10, 15, 24	VOCs, TPH, Metals
SB2-E2	11/27/2019	14253 Whittram Ave, 30' East of SB-2	23*	Soil	1, 5, 10, 15, 23	VOCs, TPH, Metals
SB2-S1	11/27/2019	14253 Whittram Ave, 15' South of SB-2	24*	Soil	1, 5, 10, 15, 24	VOCs, TPH, Metals
SB2-S2	11/25/2019	14253 Whittram Ave, 30' South of SB-2	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
SB2-W1	11/27/2019	14253 Whittram Ave, 15' West of SB-2	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
SB2-W2	11/27/2019	14253 Whittram Ave, 30' West of SB-2	23*	Soil	1, 5, 10, 15, 23	VOCs, TPH, Metals
SB6-N1	11/19/2019	14253 Whittram Ave, 50' North of SB-6	21*	Soil	1, 5, 10, 15, 21	VOCs, TPH, Metals
				Soil Gas	5, 15, 21	VOCs

Table 1 - Summary of Investigation Scope

Boring Identification	Date Drilled	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths (feet bgs)	Target Analytes
SB6-N2	11/19/2019	14253 Whittram Ave, 100' North of SB-6	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB6-E1	11/19/2019	14253 Whittram Ave, 50' East of SB-6	13*	Soil	1, 5, 10, 13	VOCs, TPH, Metals
				Soil Gas	5, 13	VOCs
SB6-E2	11/19/2019	14253 Whittram Ave, 100' East of SB-6	12*	Soil	1, 5, 10, 12	VOCs, TPH, Metals
				Soil Gas	5, 12	VOCs
SB6-S1	11/20/2019	14253 Whittram Ave, 50' South of SB-6	15*	Soil	1, 5, 10, 15	VOCs, TPH, Metals
				Soil Gas	5, 15	VOCs
SB6-S2	11/20/2019	14253 Whittram Ave, 100' South of SB-6	22*	Soil	1, 5, 10, 15, 22	VOCs, TPH, Metals
				Soil Gas	5, 15, 22	VOCs
SB6-W1	11/20/2019	14253 Whittram Ave, 50' West of SB-6	20*	Soil	1, 5, 10, 15, 20	VOCs, TPH, Metals
				Soil Gas	5, 15, 20	VOCs
SB6-W2	11/20/2019	14253 Whittram Ave, 100' West of SB-6	22*	Soil	1, 5, 10, 15, 22	VOCs, TPH, Metals
				Soil Gas	5, 15, 22	VOCs
SB8-N1	11/21/2019	14253 Whittram Ave, 50' North of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-N2	11/21/2019	14253 Whittram Ave, 100' North of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-E1	11/22/2019	14253 Whittram Ave, 50' East of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-E2	11/22/2019	14253 Whittram Ave, 100' East of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-S1	11/22/2019	14253 Whittram Ave, 50' South of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-S2	11/22/2019	14253 Whittram Ave, 100' South of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-W1	11/21/2019	14253 Whittram Ave, 50' West of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB8-W2	11/21/2019	14253 Whittram Ave, 100' West of SB-8	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs

Table 1 - Summary of Investigation Scope

Boring Identification	Date Drilled	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths (feet bgs)	Target Analytes
SB15-N1	11/26/2019	14253 Whittram Ave, 50' North of SB-15	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB15-N2	11/26/2019	14253 Whittram Ave, 100' North of SB-15	25	Soil	1, 5, 10, 15, 25	VOCs, TPH, Metals
				Soil Gas	5, 15, 25	VOCs
SB15-E1	11/26/2019	14253 Whittram Ave, 50' East of SB-15	15*	Soil	1, 5, 10, 15	VOCs, TPH, Metals
				Soil Gas	5, 15	VOCs
SB15-E2	11/26/2019	14253 Whittram Ave, 100' East of SB-15	20*	Soil	1, 5, 10, 15, 20	VOCs, TPH, Metals
				Soil Gas	5, 15, 20	VOCs
SB15-S1	11/25/2019	14253 Whittram Ave, 25' South of SB-15	3*	Soil	1	VOCs, TPH, Metals
				Soil Gas	3	VOCs
SB15-S2	11/25/2019	14253 Whittram Ave, 50' South of SB-15	5*	Soil	1, 5	VOCs, TPH, Metals
				Soil Gas	5	VOCs
SB15-W1	11/25/2019	14253 Whittram Ave, 50' West of SB-15	4*	Soil	1, 4	VOCs, TPH, Metals
				Soil Gas	4	VOCs
SB15-W2	11/25/2019	14253 Whittram Ave, 100' West of SB-15	15*	Soil	1, 5, 10, 15	VOCs, TPH, Metals
				Soil Gas	5, 15	VOCs

Notes:

^ Soil depths in bold analyzed for volatile organic compounds (VOCs) in accordance with United States Environmental Protection Agency (EPA) Method 8260B, total petroleum hydrocarbons (TPH) in accordance with EPA Method 8015M, and Title 22 Metals in accordance with EPA Methods 6010B/7471A

^ Soil Gas depths in bold analyzed for VOCs in accordance with EPA Method 8260B in the HMC Investigation, and EPA Method TO-15 in the Partner Additional Phase II Subsurface Investigation

*Refusal encountered at the terminal depth

VOCs = volatile organic compounds

TPH = total petroleum hydrocarbons

bgs = below ground surface

Additional Phase II Subsurface Investigation
Whittram Fontana

14253, 14315, and 14339 Whittram Avenue
Fontana, California 92335

Partner Project Number: SM19-259094

February 2020

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Table 2: Cumulative Soil VOCs Laboratory Results (µg/kg)

EPA Method				8260B (mg/kg)											
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Other VOCs
Stantec Baseline Environmental Site Assessment (April 2012)															
4/12/12	HA-1-1'	HA-1	1	<0.0016	<0.0016	<0.0041	<0.0016	<0.0016	<0.0041	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	ND
4/12/12	HA-2-1'	HA-2	1	<0.0018	<0.0018	<0.0045	<0.0018	<0.0018	<0.0045	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	ND
4/12/12	HA-3-1'	HA-3	1	<0.0017	<0.0017	<0.0044	<0.0017	<0.0017	<0.0044	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	ND
4/12/12	HA-4-1'	HA-4	1	<0.0017	<0.0017	<0.0043	<0.0017	<0.0017	<0.0043	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	ND
4/12/12	HA-5-1'	HA-5	1	<0.0018	<0.0018	<0.0045	<0.0018	<0.0018	<0.0045	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	ND
4/12/12	HA-6-1'	HA-6	1	<0.0018	<0.0018	<0.0045	<0.0018	<0.0018	<0.0045	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	ND
HMC - Soil and Soil Gas Investigation (September 2019)															
8/22/19	HMC SB-1-1'	HMC SB-1	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-1-5'	HMC SB-1	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-2-1'	HMC SB-2	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-2-5'	HMC SB-2	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-3-1'	HMC SB-3	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-3-5'	HMC SB-3	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-3-10'	HMC SB-3	10	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-3-15'	HMC SB-3	15	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-4-1'	HMC SB-4	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-4-5'	HMC SB-4	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-5-SS'	HMC SB-5	SS	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-5-1'	HMC SB-5	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-5-5'	HMC SB-5	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-6-1'	HMC SB-6	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.016	0.0052	ND
8/22/19	HMC SB-6-5'	HMC SB-6	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-7-1'	HMC SB-7	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-7-5'	HMC SB-7	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-7-10'	HMC SB-7	10	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-7-15'	HMC SB-7	15	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-8-1'	HMC SB-8	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	0.08	0.025	ND
8/22/19	HMC SB-8-5'	HMC SB-8	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-9-1'	HMC SB-9	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-9-5'	HMC SB-9	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-10-1'	HMC SB-10	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-10-5'	HMC SB-10	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-10-10'	HMC SB-10	10	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-10-15'	HMC SB-10	15	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-11-1'	HMC SB-11	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-11-5'	HMC SB-11	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-11-10'	HMC SB-11	10	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-11-15'	HMC SB-11	15	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND

Table 2: Cumulative Soil VOCs Laboratory Results (µg/kg)

Date Sampled	Sample Identification	Sample Location	EPA Method Sample Depth (feet bgs)	8260B (mg/kg)											
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Other VOCs
8/22/19	HMC SB-12-1'	HMC SB-12	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-12-5'	HMC SB-12	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-13-1'	HMC SB-13	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-13-5'	HMC SB-13	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-14-1'	HMC SB-14	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-14-5'	HMC SB-14	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-14-10'	HMC SB-14	10	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/22/19	HMC SB-14-15'	HMC SB-14	15	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-15-1'	HMC SB-15	1	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
8/23/19	HMC SB-15-5'	HMC SB-15	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0099	<0.005	ND
Partner - Additional Phase II Subsurface Investigation (November 2019)															
11/27/19	SB2-N1-1'	SB2-N1	1	<0.0026	<0.0026	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0087	<0.0044	ND
11/27/19	SB2-N1-5'	SB2-N1	5	<0.0029	<0.0029	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	ND
11/27/19	SB2-N1-10'	SB2-N1	10	<0.0027	<0.0027	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0091	<0.0046	ND
11/27/19	SB2-N2-1'	SB2-N2	1	<0.0026	<0.0026	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	<0.0044	ND
11/27/19	SB2-N2-5'	SB2-N2	5	<0.004	<0.004	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.013	<0.0067	ND
11/27/19	SB2-N2-10'	SB2-N2	10	<0.0025	<0.0025	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0083	<0.0041	ND
11/27/19	SB2-E1-1'	SB2-E1	1	<0.0028	<0.0028	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	ND
11/27/19	SB2-E1-5'	SB2-E1	5	<0.0031	<0.0031	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	ND
11/27/19	SB2-E1-10'	SB2-E1	10	<0.0035	<0.0035	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	ND
11/27/19	SB2-E2-1'	SB2-E2	1	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	ND
11/27/19	SB2-E2-5'	SB2-E2	5	<0.0031	<0.0031	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	ND
11/27/19	SB2-E2-10'	SB2-E2	10	<0.0033	<0.0033	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.0056	ND
11/27/19	SB2-S1-1'	SB2-S1	1	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	<0.0043	ND
11/27/19	SB2-S1-5'	SB2-S1	5	<0.0026	<0.0026	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0087	<0.0044	ND
11/27/19	SB2-S1-10'	SB2-S1	10	<0.0030	<0.0030	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.0051	ND
11/25/19	SB2-S2-1'	SB2-S2	1	<0.0030	<0.0030	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	ND
11/25/19	SB2-S2-5'	SB2-S2	5	<0.0066	<0.0066	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.022	<0.011	ND
11/25/19	SB2-S2-10'	SB2-S2	10	<0.0029	<0.0029	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	ND
11/27/19	SB2-W1-1'	SB2-W1	1	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0083	<0.0042	ND
11/27/19	SB2-W1-5'	SB2-W1	5	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	<0.0043	ND
11/27/19	SB2-W1-10'	SB2-W1	10	<0.0028	<0.0028	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	ND
11/27/19	SB2-W2-1'	SB2-W2	1	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	<0.0043	ND
11/27/19	SB2-W2-5'	SB2-W2	5	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	ND
11/27/19	SB2-W2-10'	SB2-W2	10	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	ND
11/19/19	SB6-N1-1'	SB6-N1	1	<0.0028	<0.0028	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0093	<0.0046	ND
11/19/19	SB6-N1-5'	SB6-N1	5	<0.0036	<0.0036	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	ND
11/19/19	SB6-N1-10'	SB6-N1	10	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	<0.0043	ND

Table 2: Cumulative Soil VOCs Laboratory Results (µg/kg)

Date Sampled	Sample Identification	Sample Location	EPA Method Sample Depth (feet bgs)	8260B (mg/kg)											
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Other VOCs
11/19/19	SB6-N2-1'	SB6-N2	1	<0.0029	<0.0029	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	ND
11/19/19	SB6-N2-5'	SB6-N2	5	<0.0032	<0.0032	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	ND
11/19/19	SB6-N2-10'	SB6-N2	10	<0.0028	<0.0028	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	ND
11/19/19	SB6-E1-1'	SB6-E1	1	<0.0029	<0.0029	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	ND
11/19/19	SB6-E1-5'	SB6-E1	5	<0.0036	<0.0036	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.006	ND
11/19/19	SB6-E1-10'	SB6-E1	10	<0.003	<0.003	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	ND
11/19/19	SB6-E2-1'	SB6-E2	1	<0.0039	<0.0039	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.013	<0.0064	ND
11/19/19	SB6-E2-5'	SB6-E2	5	<0.0023	<0.0023	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0076	<0.0038	ND
11/19/19	SB6-E2-10'	SB6-E2	10	<0.0029	<0.0029	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	ND
11/20/19	SB6-S1-1'	SB6-S1	1	<0.0027	<0.0027	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	ND
11/20/19	SB6-S1-5'	SB6-S1	5	<0.003	<0.003	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.0051	ND
11/20/19	SB6-S1-10'	SB6-S1	10	<0.0028	<0.0028	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	ND
11/20/19	SB6-S2-1'	SB6-S2	1	<0.0028	<0.0028	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0095	<0.0047	ND
11/20/19	SB6-S2-5'	SB6-S2	5	<0.0023	<0.0023	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	ND
11/20/19	SB6-S2-10'	SB6-S2	10	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	ND
11/20/19	SB6-W1-1'	SB6-W1	1	<0.0031	<0.0031	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.0051	ND
11/20/19	SB6-W1-5'	SB6-W1	5	<0.0029	<0.0029	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	ND
11/20/19	SB6-W1-10'	SB6-W1	10	<0.0022	<0.0022	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0073	<0.0037	ND
11/20/19	SB6-W2-1'	SB6-W2	1	<0.0034	<0.0034	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	<0.0057	ND
11/20/19	SB6-W2-5'	SB6-W2	5	<0.0025	<0.0025	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	ND
11/20/19	SB6-W2-10'	SB6-W2	10	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0083	<0.0042	ND
11/21/19	SB8-N1-1'	SB8-N1	1	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	ND
11/21/19	SB8-N1-5'	SB8-N1	5	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	ND
11/21/19	SB8-N1-10'	SB8-N1	10	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	ND
11/21/19	SB8-N1-15'	SB8-N1	15	<0.004	<0.004	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.013	<0.0067	ND
11/21/19	SB8-N2-1'	SB8-N2	1	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	<0.0045	ND
11/21/19	SB8-N2-5'	SB8-N2	5	<0.0027	<0.0027	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	ND
11/21/19	SB8-N2-10'	SB8-N2	10	<0.0031	<0.0031	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.010	<0.0052	ND
11/22/19	SB8-E1-1'	SB8-E1	1	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	ND
11/22/19	SB8-E1-5'	SB8-E1	5	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	<0.0043	ND
11/22/19	SB8-E1-10'	SB8-E1	10	<0.0025	<0.0025	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0083	<0.0041	ND
11/22/19	SB8-E2-1'	SB8-E2	1	<0.0024	<0.0024	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0079	<0.0039	ND
11/22/19	SB8-E2-5'	SB8-E2	5	<0.0027	<0.0027	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	ND
11/22/19	SB8-E2-10'	SB8-E2	10	<0.0023	<0.0023	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0077	<0.0038	ND
11/22/19	SB8-S1-1'	SB8-S1	1	<0.0023	<0.0023	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0077	<0.0038	ND
11/22/19	SB8-S1-5'	SB8-S1	5	<0.0023	<0.0023	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0076	<0.0038	ND
11/22/19	SB8-S1-10'	SB8-S1	10	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	<0.0043	ND
11/22/19	SB8-S2-1'	SB8-S2	1	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	ND
11/22/19	SB8-S2-5'	SB8-S2	5	<0.0026	<0.0026	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	<0.0044	ND
11/22/19	SB8-S2-10'	SB8-S2	10	<0.0027	<0.0027	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0091	<0.0046	ND

Table 2: Cumulative Soil VOCs Laboratory Results (µg/kg)

Date Sampled	Sample Identification	Sample Location	EPA Method Sample Depth (feet bgs)	8260B (mg/kg)											
				Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Other VOCs
11/21/19	SB8-W1-1'	SB8-W1	1	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	ND
11/21/19	SB8-W1-5'	SB8-W1	5	<0.0027	<0.0027	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	ND
11/21/19	SB8-W1-10'	SB8-W1	10	<0.0023	<0.0023	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	ND
11/21/19	SB8-W2-1'	SB8-W2	1	<0.0024	<0.0024	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.0081	<0.004	ND
11/21/19	SB8-W2-5'	SB8-W2	5	<0.0025	<0.0025	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	ND
11/21/19	SB8-W2-10'	SB8-W2	10	<0.0025	<0.0025	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	ND
11/26/19	SB15-N1-1'	SB15-N1	1	<0.0033	<0.0033	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	ND
11/26/19	SB15-N1-5'	SB15-N1	5	<0.0023	<0.0023	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0075	<0.0038	ND
11/26/19	SB15-N1-10'	SB15-N1	10	<0.003	<0.003	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.0051	ND
11/26/19	SB15-N2-1'	SB15-N2	1	<0.0029	<0.0029	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	ND
11/26/19	SB15-N2-5'	SB15-N2	5	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	ND
11/26/19	SB15-N2-10'	SB15-N2	10	<0.0028	<0.0028	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	ND
11/26/19	SB15-E1-1'	SB15-E1	1	<0.0029	<0.0029	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	ND
11/26/19	SB15-E1-5'	SB15-E1	5	<0.0027	<0.0027	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	<0.0044	ND
11/26/19	SB15-E1-10'	SB15-E1	10	<0.0031	<0.0031	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.0051	ND
11/26/19	SB15-E2-1'	SB15-E2	1	<0.0027	<0.0027	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0091	<0.0046	ND
11/26/19	SB15-E2-5'	SB15-E2	5	<0.0029	<0.0029	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	ND
11/26/19	SB15-E2-10'	SB15-E2	10	<0.0028	<0.0028	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	ND
11/25/19	SB15-S1-1'	SB15-S1	1	<0.0026	<0.0026	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	<0.0043	ND
11/25/19	SB15-S2-1'	SB15-S2	1	<0.0029	<0.0029	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	ND
11/25/19	SB15-S2-5'	SB15-S2	5	<0.0028	<0.0028	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	ND
11/25/19	SB15-W1-1'	SB15-W1	1	<0.0036	<0.0036	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.006	ND
11/25/19	SB15-W1-4'	SB15-W1	4	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	ND
11/25/19	SB15-W2-1'	SB15-W2	1	<0.0027	<0.0027	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	ND
11/25/19	SB15-W2-5'	SB15-W2	5	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	ND
11/25/19	SB15-W2-10'	SB15-W2	10	<0.0027	<0.0027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	<0.0045	ND
Commercial/Industrial Soil SL				2.70	6.00	350	84.0	600	0.150	1.40	5,300	25.0	240	240	NA
Basis*				HERO	RSL	HERO	HERO	HERO	HERO	HERO	HERO	RSL	RSL	RSL	NA

Notes:

VOCs = volatile organic compounds

EPA = Environmental Protection Agency

mg/kg = milligrams per kilogram

bgs = below ground surface

PCE = tetrachloroethene

TCE = trichloroethene

DCE = dichloroethene

< = not detected above indicated laboratory Reporting Limit (RL)

ND = Not detected

NA = not applicable

* = Most conservative Screening Level (SL) between EPA's Regional Screening Levels (RSLs) (November 2018) and Department of Toxic Substances Control's (DTSC's) Human and Ecological Risk Office (HERO) Note 3 (April 2019)

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Table 3: Cumulative Soil TPH Laboratory Results (µg/kg)

EPA Method				8015M (mg/kg)		
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	TPH-g	TPH-d	TPH-o
Stantec Baseline Environmental Site Assessment (April 2012)						
4/12/12	HA-1-1'	HA-1	1	<0.081	<5	<5
4/12/12	HA-2-1'	HA-2	1	<0.091	<5	<5
4/12/12	HA-3-1'	HA-3	1	<0.087	<5	<5
4/12/12	HA-4-1'	HA-4	1	<0.085	<5	<5
4/12/12	HA-5-1'	HA-5	1	<0.090	<10	36
4/12/12	HA-6-1'	HA-6	1	<0.089	<5	6
HMC - Soil and Soil Gas Investigation (September 2019)						
8/22/19	HMC SB-1-1'	HMC SB-1	1	<10	13.0	<10
8/22/19	HMC SB-1-5'	HMC SB-1	5	<10	<10	<10
8/22/19	HMC SB-2-1'	HMC SB-2	1	<10	390	2300
8/22/19	HMC SB-2-5'	HMC SB-2	5	<10	<10	<10
8/22/19	HMC SB-3-1'	HMC SB-3	1	<10	12.0	<10
8/22/19	HMC SB-3-5'	HMC SB-3	5	<10	11.0	10.0
8/22/19	HMC SB-3-10'	HMC SB-3	10	<10	<10	<10
8/22/19	HMC SB-4-15'	HMC SB-4	15	<10	17.0	<10
8/22/19	HMC SB-4-1'	HMC SB-4	1	<10	10.0	89.0
8/22/19	HMC SB-4-5'	HMC SB-4	5	<10	<10	<10
8/23/19	HMC SB-5-SS'	HMC SB-5	SS	<10	13.0	90.0
8/23/19	HMC SB-5-1'	HMC SB-5	1	<10	<10	<10
8/23/19	HMC SB-5-5'	HMC SB-5	5	<10	<10	<10
8/22/19	HMC SB-6-1'	HMC SB-6	1	<10	13.0	25.0
8/22/19	HMC SB-6-5'	HMC SB-6	5	<10	16.0	14.0
8/22/19	HMC SB-7-1'	HMC SB-7	1	<10	11.0	51.0
8/22/19	HMC SB-7-5'	HMC SB-7	5	<10	10.0	<10
8/22/19	HMC SB-7-10'	HMC SB-7	10	<10	<10	<10
8/22/19	HMC SB-7-15'	HMC SB-7	15	<10	<10	<10
8/22/19	HMC SB-8-1'	HMC SB-8	1	<10	2000	580
8/22/19	HMC SB-8-5'	HMC SB-8	5	<10	20.0	<10
8/22/19	HMC SB-9-1'	HMC SB-9	1	<10	<10	<10
8/22/19	HMC SB-9-5'	HMC SB-9	5	<10	<10	<10
8/23/19	HMC SB-10-1'	HMC SB-10	1	<10	21.0	150
8/23/19	HMC SB-10-5'	HMC SB-10	5	<10	10.0	<10
8/23/19	HMC SB-10-10'	HMC SB-10	10	<10	<10	<10
8/23/19	HMC SB-10-15'	HMC SB-10	15	<10	<10	<10
8/22/19	HMC SB-11-1'	HMC SB-11	1	<10	18.0	10.0
8/22/19	HMC SB-11-5'	HMC SB-11	5	<10	<10	<10
8/22/19	HMC SB-11-10'	HMC SB-11	10	<10	<10	<10
8/22/19	HMC SB-11-15'	HMC SB-11	15	<10	<10	12.0

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Table 3: Cumulative Soil TPH Laboratory Results (µg/kg)

Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	EPA Method 8015M (mg/kg)		
				TPH-g	TPH-d	TPH-o
8/22/19	HMC SB-12-1'	HMC SB-12	1	<10	<10	<10
8/22/19	HMC SB-12-5'	HMC SB-12	5	<10	<10	<10
8/22/19	HMC SB-13-1'	HMC SB-13	1	<10	14.0	<10
8/22/19	HMC SB-13-5'	HMC SB-13	5	<10	<10	<10
8/22/19	HMC SB-14-1'	HMC SB-14	1	<10	12.0	<10
8/22/19	HMC SB-14-5'	HMC SB-14	5	<10	<10	<10
8/22/19	HMC SB-14-10'	HMC SB-14	10	<10	<10	<10
8/22/19	HMC SB-14-15'	HMC SB-14	15	<10	<10	<10
8/23/19	HMC SB-15-1'	HMC SB-15	1	<10	13.0	38.0
8/23/19	HMC SB-15-5'	HMC SB-15	5	<10	<10	<10
Partner - Additional Phase II Subsurface Investigation (November 2019)						
11/27/19	SB2-N1-1'	SB2-N1	1	<10	<10	29.0
11/27/19	SB2-N1-5'	SB2-N1	5	<10	<10	<10
11/27/19	SB2-N1-10'	SB2-N1	10	<10	<10	<10
11/27/19	SB2-N2-1'	SB2-N2	1	<10	<10	<10
11/27/19	SB2-N2-5'	SB2-N2	5	<10	<10	<10
11/27/19	SB2-N2-10'	SB2-N2	10	<10	<10	<10
11/27/19	SB2-E1-1'	SB2-E1	1	14.0	63.0	810
11/27/19	SB2-E1-5'	SB2-E1	5	<10	<10	<10
11/27/19	SB2-E1-10'	SB2-E1	10	<10	<10	<10
11/27/19	SB2-E2-1'	SB2-E2	1	<10	<10	<10
11/27/19	SB2-E2-5'	SB2-E2	5	<10	<10	<10
11/27/19	SB2-E2-10'	SB2-E2	10	<10	<10	<10
11/27/19	SB2-S1-1'	SB2-S1	1	<10	10.0	93.0
11/27/19	SB2-S1-5'	SB2-S1	5	<10	<10	<10
11/27/19	SB2-S1-10'	SB2-S1	10	<10	<10	<10
11/25/19	SB2-S2-1'	SB2-S2	1	<10	<10	<10
11/25/19	SB2-S2-5'	SB2-S2	5	<10	<10	<10
11/25/19	SB2-S2-10'	SB2-S2	10	<10	<10	<10
11/27/19	SB2-W1-1'	SB2-W1	1	<10	<10	14.0
11/27/19	SB2-W1-5'	SB2-W1	5	<10	<10	<10
11/27/19	SB2-W1-10'	SB2-W1	10	<10	<10	<10
11/27/19	SB2-W2-1'	SB2-W2	1	<10	<10	<10
11/27/19	SB2-W2-5'	SB2-W2	5	<10	<10	<10
11/27/19	SB2-W2-10'	SB2-W2	10	<10	<10	<10
11/19/19	SB6-N1-1'	SB6-N1	1	<10	<10	48.0
11/19/19	SB6-N1-5'	SB6-N1	5	<10	<10	19.0
11/19/19	SB6-N1-10'	SB6-N1	10	<10	<10	<10

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Table 3: Cumulative Soil TPH Laboratory Results (µg/kg)

Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	EPA Method 8015M (mg/kg)		
				TPH-g	TPH-d	TPH-o
11/19/19	SB6-N2-1'	SB6-N2	1	<10	<10	39.0
11/19/19	SB6-N2-5'	SB6-N2	5	<10	<10	<10
11/19/19	SB6-N2-10'	SB6-N2	10	<10	<10	<10
11/19/19	SB6-E1-1'	SB6-E1	1	<10	<10	19.0
11/19/19	SB6-E1-5'	SB6-E1	5	<10	<10	16.0
11/19/19	SB6-E1-10'	SB6-E1	10	<10	<10	<10
11/19/19	SB6-E2-1'	SB6-E2	1	<10	<10	59.0
11/19/19	SB6-E2-5'	SB6-E2	5	<10	<10	<10
11/19/19	SB6-E2-10'	SB6-E2	10	<10	<10	<10
11/20/19	SB6-S1-1'	SB6-S1	1	<10	<10	46.0
11/20/19	SB6-S1-5'	SB6-S1	5	<10	<10	<10
11/20/19	SB6-S1-10'	SB6-S1	10	<10	<10	<10
11/20/19	SB6-S2-1'	SB6-S2	1	<10	<10	54.0
11/20/19	SB6-S2-5'	SB6-S2	5	<10	<10	<10
11/20/19	SB6-S2-10'	SB6-S2	10	<10	<10	<10
11/20/19	SB6-W1-1'	SB6-W1	1	<10	<10	24.0
11/20/19	SB6-W1-5'	SB6-W1	5	<10	<10	17.0
11/20/19	SB6-W1-10'	SB6-W1	10	<10	<10	<10
11/20/19	SB6-W2-1'	SB6-W2	1	<10	14.0	100
11/20/19	SB6-W2-5'	SB6-W2	5	<10	<10	<10
11/20/19	SB6-W2-10'	SB6-W2	10	<10	<10	<10
11/21/19	SB8-N1-1'	SB8-N1	1	<10	16.0	230
11/21/19	SB8-N1-5'	SB8-N1	5	<10	<10	<10
11/21/19	SB8-N1-10'	SB8-N1	10	<10	<10	<10
11/21/19	SB8-N1-15'	SB8-N1	15	<10	<10	<10
11/21/19	SB8-N2-1'	SB8-N2	1	<100	<100	630
11/21/19	SB8-N2-5'	SB8-N2	5	<10	<10	<10
11/21/19	SB8-N2-10'	SB8-N2	10	<10	<10	<10
11/22/19	SB8-E1-1'	SB8-E1	1	<10	<10	<10
11/22/19	SB8-E1-5'	SB8-E1	5	<10	<10	<10
11/22/19	SB8-E1-10'	SB8-E1	10	<10	<10	<10
11/22/19	SB8-E2-1'	SB8-E2	1	<10	880	140
11/22/19	SB8-E2-5'	SB8-E2	5	<10	<10	<10
11/22/19	SB8-E2-10'	SB8-E2	10	<10	<10	<10
11/22/19	SB8-S1-1'	SB8-S1	1	<10	14.0	55.0
11/22/19	SB8-S1-5'	SB8-S1	5	<10	<10	<10
11/22/19	SB8-S1-10'	SB8-S1	10	<10	<10	<10
11/22/19	SB8-S2-1'	SB8-S2	1	<10	14.0	140
11/22/19	SB8-S2-5'	SB8-S2	5	<10	<10	<10
11/22/19	SB8-S2-10'	SB8-S2	10	<10	<10	<10

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Table 3: Cumulative Soil TPH Laboratory Results (µg/kg)

Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	EPA Method 8015M (mg/kg)		
				TPH-g	TPH-d	TPH-o
11/21/19	SB8-W1-1'	SB8-W1	1	<10	73.0	850
11/21/19	SB8-W1-5'	SB8-W1	5	<10	<10	<10
11/21/19	SB8-W1-10'	SB8-W1	10	<10	<10	<10
11/21/19	SB8-W2-1'	SB8-W2	1	<100	<100	620
11/21/19	SB8-W2-5'	SB8-W2	5	<10	<10	<10
11/21/19	SB8-W2-10'	SB8-W2	10	<10	<10	<10
11/26/19	SB15-N1-1'	SB15-N1	1	<10	<10	75.0
11/26/19	SB15-N1-5'	SB15-N1	5	<10	<10	<10
11/26/19	SB15-N1-10'	SB15-N1	10	<10	<10	<10
11/26/19	SB15-N2-1'	SB15-N2	1	<10	<10	150
11/26/19	SB15-N2-5'	SB15-N2	5	<10	<10	<10
11/26/19	SB15-N2-10'	SB15-N2	10	<10	<10	<10
11/26/19	SB15-E1-1'	SB15-E1	1	<10	<10	<10
11/26/19	SB15-E1-5'	SB15-E1	5	<10	<10	<10
11/26/19	SB15-E1-10'	SB15-E1	10	<10	<10	<10
11/26/19	SB15-E2-1'	SB15-E2	1	<10	<10	16.0
11/26/19	SB15-E2-5'	SB15-E2	5	<10	<10	<10
11/26/19	SB15-E2-10'	SB15-E2	10	<10	<10	<10
11/25/19	SB15-S1-1'	SB15-S1	1	<50	<50	570
11/25/19	SB15-S2-1'	SB15-S2	1	<10	<10	30.0
11/25/19	SB15-S2-5'	SB15-S2	5	<10	<10	<10
11/25/19	SB15-W1-1'	SB15-W1	1	<10	<10	<10
11/25/19	SB15-W1-4'	SB15-W1	4	<10	<10	<10
11/25/19	SB15-W2-1'	SB15-W2	1	<10	11.0	47.0
11/25/19	SB15-W2-5'	SB15-W2	5	<10	<10	14.0
11/25/19	SB15-W2-10'	SB15-W2	10	<10	<10	<10
Commercial/Industrial Soil SL				1,000	10,000	50,000
Basis*				LARWQCB	LARWQCB	LARWQCB

Notes:

TPH = total petroleum hydrocarbons

TPH-g = gasoline range petroleum hydrocarbons

TPH-d = diesel range petroleum hydrocarbons

TPH-o = oil range petroleum hydrocarbons

EPA = Environmental Protection Agency

mg/kg = milligrams per kilogram

bgs = below ground surface

< = not detected above indicated laboratory Reporting Limit (RL)

NA = not applicable

* = Screening Level (SL) from the Los Angeles Regional Water Quality Control Board (LARWQCB)

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Table 4: Cumulative Soil Metals Laboratory Results (µg/kg)

EPA Method				6010B / 7471A (mg/kg)																
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	Antimony	Lead	Molybdenum	Nickel	Selenium	Thallium	Vanadium	Zinc	Silver	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Mercury
Stantec Baseline Environmental Site Assessment (April 2012)																				
4/12/12	HA-1-1'	HA-1	1	<9.9	5.4	<2.0	12	<2.0	<9.9	33	41	<0.99	3.8	51	<0.50	<0.50	19	6.2	10	<0.020
4/12/12	HA-2-1'	HA-2	1	<10	11	<2.0	13	<2.0	<10	34	48	<1.0	3.8	54	<0.51	<0.51	20	6.5	11	<0.020
4/12/12	HA-3-1'	HA-3	1	<9.9	11	<2.0	11	<2.0	<9.9	31	42	<0.99	3.2	44	<0.50	<0.50	16	5.7	10	<0.020
4/12/12	HA-4-1'	HA-4	1	<9.9	4.8	<2.0	11	<2.0	<9.9	29	38	<0.99	3.2	45	<0.50	<0.50	15	6.1	8.3	0.025
4/12/12	HA-5-1'	HA-5	1	<9.9	6.7	<2.0	13	<2.0	<9.9	33	41	<0.99	4.2	51	<0.50	<0.50	21	6.2	11	<0.020
4/12/12	HA-6-1'	HA-6	1	<10	6.6	<2.0	12	<2.0	<10	36	40	<1.0	4.1	53	<0.50	<0.50	24	6.3	11	<0.020
HMC - Soil and Soil Gas Investigation (September 2019)																				
8/22/19	HMC SB-1-1'	HMC SB-1	1	<3.0	35	<5.0	7.4	<5.0	<2.0	22	110	<2.0	<5.0	60	<1.0	<2.0	11	5.3	14	<0.10
8/22/19	HMC SB-1-5'	HMC SB-1	5	<3.0	3.9	<5.0	8.7	<5.0	<2.0	26	27	<2.0	6.9	48	<1.0	<2.0	13	6.8	8.2	<0.10
8/22/19	HMC SB-2-1'	HMC SB-2	1	<3.0	890	19	48	<5.0	<2.0	32	690	<2.0	<5.0	230	<1.0	19	95	11	360	0.10
8/22/19	HMC SB-2-5'	HMC SB-2	5	<3.0	3.5	<5.0	6.4	<5.0	<2.0	20	25	<2.0	<5.0	29	<1.0	<2.0	9.3	5.2	11	<0.10
8/22/19	HMC SB-3-1'	HMC SB-3	1	<3.0	<3.0	<5.0	5.9	<5.0	<2.0	21	26	<2.0	<5.0	34	<1.0	<2.0	9.1	5.1	8.3	<0.10
8/22/19	HMC SB-3-5'	HMC SB-3	5	<3.0	3.4	<5.0	6.2	<5.0	<2.0	20	25	<2.0	<5.0	42	<1.0	<2.0	12	5.3	6.7	<0.10
8/22/19	HMC SB-3-10'	HMC SB-3	10	<3.0	<3.0	<5.0	4.5	<5.0	<2.0	25	24	<2.0	<5.0	22	<1.0	<2.0	8.4	5.9	5.3	<0.10
8/22/19	HMC SB-4-15'	HMC SB-4	15	<3.0	4.8	<5.0	14	<5.0	<2.0	24	33	<2.0	7.9	37	<1.0	<2.0	17	6.9	11	<0.10
8/22/19	HMC SB-4-1'	HMC SB-4	1	<3.0	6	<5.0	6.6	<5.0	<2.0	22	39	<2.0	<5.0	38	<1.0	<2.0	11	5.6	6.6	<0.10
8/22/19	HMC SB-4-5'	HMC SB-4	5	<3.0	<3.0	<5.0	2.5	<5.0	<2.0	18	28	<2.0	<5.0	28	<1.0	<2.0	5.3	4.3	3.9	<0.10
8/23/19	HMC SB-5-SS'	HMC SB-5	SS	<3.0	120	<5.0	29	<5.0	<2.0	120	250	<2.0	<5.0	100	<1.0	3.3	200	14	93	<0.10
8/23/19	HMC SB-5-1'	HMC SB-5	1	<3.0	6.1	<5.0	8.3	<5.0	<2.0	26	39	<2.0	<5.0	47	<1.0	<2.0	13	7	8.7	<0.10
8/23/19	HMC SB-5-5'	HMC SB-5	5	<3.0	<3.0	<5.0	5.5	<5.0	<2.0	17	22	<2.0	<5.0	26	<1.0	<2.0	11	4.5	6.5	<0.10
8/22/19	HMC SB-6-1'	HMC SB-6	1	<3.0	<3.0	<5.0	2.4	<5.0	<2.0	14	23	<2.0	<5.0	19	<1.0	<2.0	4.3	3.6	4.6	<0.10
8/22/19	HMC SB-6-5'	HMC SB-6	5	<3.0	3.9	<5.0	3.4	<5.0	<2.0	23	27	<2.0	<5.0	65	<1.0	<2.0	7.5	5.3	4.8	<0.10
8/22/19	HMC SB-7-1'	HMC SB-7	1	<3.0	12	<5.0	8.6	<5.0	<2.0	26	47	<2.0	<5.0	54	<1.0	<2.0	14	6.5	12	<0.10
8/22/19	HMC SB-7-5'	HMC SB-7	5	<3.0	4.4	<5.0	6.7	<5.0	<2.0	26	38	<2.0	<5.0	78	<1.0	<2.0	11	6.5	9.0	<0.10
8/22/19	HMC SB-7-10'	HMC SB-7	10	<3.0	4.4	<5.0	6.3	<5.0	<2.0	18	24	<2.0	5.2	27	<1.0	<2.0	8.9	4.7	12	<0.10
8/22/19	HMC SB-7-15'	HMC SB-7	15	<3.0	4	<5.0	10	<5.0	<2.0	24	36	<2.0	9.5	45	<1.0	<2.0	13	7.1	14	<0.10
8/22/19	HMC SB-8-1'	HMC SB-8	1	<3.0	31	7.2	30	<5.0	<2.0	120	330	<2.0	<5.0	280	<1.0	3.3	420	6.6	90	<0.10
8/22/19	HMC SB-8-5'	HMC SB-8	5	<3.0	<3.0	<5.0	4.4	<5.0	<2.0	16	19	<2.0	<5.0	19	<1.0	<2.0	6.7	3.9	6.0	<0.10
8/22/19	HMC SB-9-1'	HMC SB-9	1	<3.0	21	<5.0	8	<5.0	<2.0	25	88	<2.0	<5.0	40	<1.0	<2.0	11	6.5	10	<0.10
8/22/19	HMC SB-9-5'	HMC SB-9	5	<3.0	<3.0	<5.0	5.9	<5.0	<2.0	20	21	<2.0	<5.0	31	<1.0	<2.0	9.5	5	7.4	<0.10
8/23/19	HMC SB-10-1'	HMC SB-10	1	<3.0	78	<5.0	23	<5.0	<2.0	98	320	<2.0	<5.0	91	<1.0	<2.0	150	11	420	<0.10
8/23/19	HMC SB-10-5'	HMC SB-10	5	<3.0	9.9	<5.0	9.5	<5.0	<2.0	28	34	<2.0	<5.0	50	<1.0	<2.0	15	7.9	12	<0.10
8/23/19	HMC SB-10-10'	HMC SB-10	10	<3.0	6.4	<5.0	7.7	<5.0	<2.0	20	25	<2.0	<5.0	31	<1.0	<2.0	13	5.1	10	<0.10
8/23/19	HMC SB-10-15'	HMC SB-10	15	<3.0	3.6	<5.0	12	<5.0	<2.0	23	29	<2.0	<5.0	26	<1.0	<2.0	14	6.3	13	<0.10
8/22/19	HMC SB-11-1'	HMC SB-11	1	<3.0	3.3	<5.0	6.7	<5.0	<2.0	23	21	<2.0	<5.0	26	<1.0	<2.0	11	5.7	9.0	<0.10
8/22/19	HMC SB-11-5'	HMC SB-11	5	<3.0	4.7	<5.0	6.2	<5.0	<2.0	19	24	<2.0	<5.0	26	<1.0	<2.0	10	4.9	8.6	<0.10
8/22/19	HMC SB-11-10'	HMC SB-11	10	<3.0	3.7	<5.0	6.2	<5.0	<2.0	18	25	<2.0	<5.0	23	<1.0	<2.0	8	4.8	8.9	<0.10
8/22/19	HMC SB-11-15'	HMC SB-11	15	<3.0	3.8	<5.0	5.8	<5.0	<2.0	21	29	<2.0	<5.0	40	<1.0	<2.0	9.1	5	8.1	<0.10
8/22/19	HMC SB-12-1'	HMC SB-12	1	<3.0	<3.0	<5.0	12	<5.0	<2.0	37	28	<2.0	<5.0	100	<1.0	<2.0	21	7.9	12	<0.10
8/22/19	HMC SB-12-5'	HMC SB-12	5	<3.0	3.1	<5.0	6.4	<5.0	<2.0	23	24	<2.0	<5.0	45	<1.0	<2.0	9.9	5.9	7.3	<0.10
8/22/19	HMC SB-13-1'	HMC SB-13	1	<3.0	5.2	<5.0	8.7	<5.0	<2.0	24	43	<2.0	<5.0	43	<1.0	<2.0	14	5.9	6.6	<0.10
8/22/19	HMC SB-13-5'	HMC SB-13	5	<3.0	<3.0	<5.0	4.3	<5.0	<2.0	24	29	<2.0	<5.0	30	<1.0	<2.0	7.3	6.1	6.4	<0.10
8/22/19	HMC SB-14-1'	HMC SB-14	1	<3.0	20	<5.0	8.3	<5.0	<2.0	24	82	<2.0	<5.0	36	<1.0	<2.0	11	6.4	9.7	<0.10
8/22/19	HMC SB-14-5'	HMC SB-14	5	<3.0	4.6	<5.0	8.9	<5.0	<2.0	30	27	<2.0	<5.0	62	<1.0	<2.0	16	7.6	13	<0.10
8/22/19	HMC SB-14-10'	HMC SB-14	10	<3.0	3.3	<5.0	6.9	<5.0	<2.0	19	20	<2.0	<5.0	22	<1.0	<2.0	8.4	4.6	9.4	<0.10
8/22/19	HMC SB-14-15'	HMC SB-14	15	<3.0	5.4	<5.0	5.3	<5.0	<2.0	14	20	<2.0	<5.0	17	<1.0	<2.0	7.3	3.7	7.1	<0.10
8/23/19	HMC SB-15-1'	HMC SB-15	1	<3.0	35	<5.0	11	<5.0	<2.0	29	110	<2.0	<5.0	51	<1.0	<2.0	15	8.3	15	0.13
8/23/19	HMC SB-15-5'	HMC SB-15	5	<3.0	4.4	<5.0	13	<5.0	<2.0	51	40	<2.0	10	98	<1.0	<2.0	26	13	25	<0.10
Partner - Additional Phase II Subsurface Investigation (November 2019)																				
11/27/19	SB2-N1-1'	SB2-N1	1	<3	21.0	<5	8.5	<5	<5	25.0	79.0	<2	<5	52.0	<1	<2	13.0	6.5	11.0	<0.1
11/27/19	SB2-N1-5'	SB2-N1	5	<3	3.5	<5	5.4	<5	<5	17.0	20.0	<2	<5	25.0	<1	<2	8.0	4.2	9.7	<0.1
11/27/19	SB2-N1-10'	SB2-N1	10	<3	<3	<5	4.2	<5	<5	14.0	20.0	<2	<5	22.0	<1	<2	6.4	3.8	6.8	<0.1
11/27/19	SB2-N2-1'	SB2-N2	1	<3	19.0	<5	7.9	<5	<5	24.0	110	<2	<5	44.0	<1	<2	12.0	6.3	10.0	<0.1
11/27/19	SB2-N2-5'	SB2-N2	5	<3	<3	<5	5.6	<5	<5	18.0	24.0	<2	<5	27.0	<1	<2	9.6	4.5	5.5	<0.1
11/27/19	SB2-N2-10'	SB2-N2	10	<3	4.2	<5	8.2	<5	<5	17.0	26.0	<2	<5	30.0	<1	<2	10.0	4.8	9.7	<0.1

Table 4: Cumulative Soil Metals Laboratory Results (µg/kg)

EPA Method				6010B / 7471A (mg/kg)																
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	Antimony	Lead	Molybdenum	Nickel	Selenium	Thallium	Vanadium	Zinc	Silver	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Mercury
11/27/19	SB2-E1-1'	SB2-E1	1	<3	100	<5	10.0	<5	<5	25.0	210	<2	<5	170	<1	2.1	17.0	6.5	180	<0.1
11/27/19	SB2-E1-5'	SB2-E1	5	<3	3.3	<5	6.2	<5	<5	16.0	20.0	<2	<5	25.0	<1	<2	9.1	4.0	8.9	<0.1
11/27/19	SB2-E1-10'	SB2-E1	10	<3	5.4	<5	3.8	<5	<5	12.0	17.0	<2	35	18.0	<1	<2	4.8	4.0	5.4	<0.1
11/27/19	SB2-E2-1'	SB2-E2	1	<3	27.0	<5	8.0	<5	<5	23.0	95.0	<2	<5	55.0	<1	<2	11.0	5.9	11.0	<0.1
11/27/19	SB2-E2-5'	SB2-E2	5	<3	3.3	<5	4.5	<5	<5	12.0	16.0	<2	<5	15.0	<1	<2	6.5	3.1	7.1	<0.1
11/27/19	SB2-E2-10'	SB2-E2	10	<3	4.2	<5	7.0	<5	<5	16.0	20.0	<2	<5	19.0	<1	<2	8.4	3.8	8.1	<0.1
11/27/19	SB2-S1-1'	SB2-S1	1	<3	64	<5	11.0	<5	<5	26.0	110	<2	<5	54.0	<1	<2	16.0	6.7	32.0	<0.1
11/27/19	SB2-S1-5'	SB2-S1	5	<3	3.9	<5	4.8	<5	<5	11.0	14.0	<2	<5	12.0	<1	<2	6.6	3.1	7.5	<0.1
11/27/19	SB2-S1-10'	SB2-S1	10	<3	<3	<5	9.4	<5	<5	24.0	25.0	<2	<5	30.0	<1	<2	23.0	5.5	14.0	<0.1
11/25/19	SB2-S2-1'	SB2-S2	1	<3	9.7	<5	8.0	<5	<5	27.0	37.0	<2	5.2	48.0	<1	<2	14.0	6.7	11.0	<0.1
11/25/19	SB2-S2-5'	SB2-S2	5	<3	6.0	<5	6.9	<5	<5	23.0	29.0	<2	<5	29.0	<1	<2	12.0	5.3	8.8	<0.1
11/25/19	SB2-S2-10'	SB2-S2	10	<2.7	7.1	<4.5	11.0	<4.5	<4.5	30.0	48.0	<1.8	<4.5	35.0	<0.91	<1.8	17.0	7.0	11.0	<0.1
11/27/19	SB2-W1-1'	SB2-W1	1	<3	6.2	<5	6.5	<5	<5	19.0	30.0	<2	<5	35.0	<1	<2	9.6	4.9	9.3	<0.1
11/27/19	SB2-W1-5'	SB2-W1	5	<3	4.3	<5	5.0	<5	<5	15.0	20.0	<2	<5	27.0	<1	<2	7.4	3.7	8.9	<0.1
11/27/19	SB2-W1-10'	SB2-W1	10	<3	4.8	<5	6.1	<5	<5	18.0	23.0	<2	<5	22.0	<1	<2	9.5	4.5	10.0	<0.1
11/27/19	SB2-W2-1'	SB2-W2	1	<3	3.9	<5	6.9	<5	<5	22.0	26.0	<2	<5	37.0	<1	<2	11.0	5.7	7.6	<0.1
11/27/19	SB2-W2-5'	SB2-W2	5	<3	7.8	<5	5.8	<5	<5	17.0	23.0	<2	<5	22.0	<1	<2	9.2	4.3	8.7	<0.1
11/27/19	SB2-W2-10'	SB2-W2	10	<3	4.0	<5	6.0	<5	<5	15.0	23.0	<2	<5	21.0	<1	<2	7.2	3.9	9.8	<0.1
11/19/19	SB6-N1-1'	SB6-N1	1	<3	5.2	<5	6.2	<5	<5	30.0	38.0	<2	<5	160	<1	<2	11.0	6.6	8.9	<0.1
11/19/19	SB6-N1-5'	SB6-N1	5	<3	3.9	<5	4.2	<5	<5	27.0	30.0	<2	<5	160	<1	<2	8.6	5.6	5.4	<0.1
11/19/19	SB6-N1-10'	SB6-N1	10	<3	3.6	<5	5.7	<5	<5	17.0	22.0	<2	<5	26.0	<1	<2	7.2	4.5	9.1	<0.1
11/19/19	SB6-N2-1'	SB6-N2	1	<3	4.3	<5	4.7	<5	<5	28.0	31.0	<2	<5	170	<1	<2	9.7	5.9	6.1	<0.1
11/19/19	SB6-N2-5'	SB6-N2	5	<3	4.2	<5	5.1	<5	<5	23.0	27.0	<2	<5	36.0	<1	<2	9.9	5.4	10.0	<0.1
11/19/19	SB6-N2-10'	SB6-N2	10	<3	3.7	<5	6.2	<5	<5	22.0	30.0	<2	<5	30.0	<1	<2	8.2	7.1	6.1	<0.1
11/19/19	SB6-E1-1'	SB6-E1	1	<3	5.6	<5	7.4	<5	<5	32.0	42.0	<2	<5	180	<1	<2	13.0	7.4	11.0	<0.1
11/19/19	SB6-E1-5'	SB6-E1	5	<3	4.0	<5	6.2	<5	<5	30.0	36.0	<2	<5	190	<1	<2	11.0	6.9	7.9	<0.1
11/19/19	SB6-E1-10'	SB6-E1	10	<3	4.6	<5	7.0	<5	<5	17.0	24.0	<2	<5	23.0	<1	<2	9.5	4.8	8.9	<0.1
11/19/19	SB6-E2-1'	SB6-E2	1	<3	9.6	<5	8.5	<5	<5	30.0	63.0	<2	<5	180	<1	<2	15.0	6.5	14.0	<0.1
11/19/19	SB6-E2-5'	SB6-E2	5	<3	4.1	<5	6.8	<5	<5	22.0	26.0	<2	<5	32.0	<1	<2	10.0	5.4	9.3	<0.1
11/19/19	SB6-E2-10'	SB6-E2	10	<3	3.8	<5	5.8	<5	<5	22.0	27.0	<2	<5	30.0	<1	<2	8.7	5.4	12.0	<0.1
11/20/19	SB6-S1-1'	SB6-S1	1	<3	11.0	<5	8.3	<5	<5	29.0	62.0	<2	<5	150	<1	<2	14.0	6.3	16.0	<0.1
11/20/19	SB6-S1-5'	SB6-S1	5	<3	3.9	<5	6.6	<5	<5	20.0	26.0	<2	<5	32.0	<1	<2	9.5	5.0	8.1	<0.1
11/20/19	SB6-S1-10'	SB6-S1	10	<3	5.7	<5	9.2	<5	<5	19.0	25.0	<2	6.3	24.0	1.5	2.1	11.0	6.5	9.7	<0.1
11/20/19	SB6-S2-1'	SB6-S2	1	<3	11.0	<5	7.4	<5	<5	25.0	64.0	<2	<5	60.0	<1	<2	12.0	5.7	14.0	<0.1
11/20/19	SB6-S2-5'	SB6-S2	5	<3	3.3	<5	5.4	<5	<5	18.0	23.0	<2	<5	32.0	<1	<2	8.6	4.4	10.0	<0.1
11/20/19	SB6-S2-10'	SB6-S2	10	<3	3.6	<5	7.8	<5	<5	20.0	24.0	<2	5.7	26.0	<1	<2	19.0	5.3	9.6	<0.1
11/20/19	SB6-W1-1'	SB6-W1	1	<3	12.0	<5	6.7	<5	<5	25.0	50.0	<2	<5	57.0	<1	<2	11.0	6.1	9.8	<0.1
11/20/19	SB6-W1-5'	SB6-W1	5	<2.7	2.8	<4.5	5.9	<4.5	<4.5	18.0	23.0	<1.8	<4.5	33.0	<0.91	<1.8	10.0	4.5	7.2	<0.1
11/20/19	SB6-W1-10'	SB6-W1	10	<3	4.3	<5	6.5	<5	<5	16.0	20.0	<2	<5	26.0	<1	<2	9.4	4.0	9.0	<0.1
11/20/19	SB6-W2-1'	SB6-W2	1	<3	14.0	<5	8.6	<5	<5	24.0	50.0	<2	<5	51.0	<1	<2	14.0	5.4	12.0	<0.1
11/20/19	SB6-W2-5'	SB6-W2	5	<3	4.0	<5	9.2	<5	<5	25.0	27.0	<2	<5	41.0	<1	<2	13.0	6.4	9.0	<0.1
11/20/19	SB6-W2-10'	SB6-W2	10	<3	4.2	<5	6.8	<5	<5	18.0	24.0	<2	<5	24.0	<1	<2	9.0	4.9	8.9	<0.1
11/21/19	SB8-N1-1'	SB8-N1	1	<3	5.6	<5	8.3	<5	<5	24.0	34.0	<2	<5	44.0	<1	<2	13.0	5.8	7.7	<0.1
11/21/19	SB8-N1-5'	SB8-N1	5	<3	3.2	<5	6.1	<5	<5	19.0	24.0	<2	<5	33.0	<1	<2	8.7	4.7	7.1	<0.1
11/21/19	SB8-N1-10'	SB8-N1	10	<3	4.0	<5	7.2	<5	<5	18.0	23.0	<2	<5	27.0	<1	<2	8.9	4.6	10.0	<0.1
11/21/19	SB8-N1-15'	SB8-N1	15	<3	4.3	<5	12.0	<5	<5	23.0	27.0	<2	8.3	31.0	<1	<2	15.0	6.3	9.1	<0.1
11/21/19	SB8-N2-1'	SB8-N2	1	<3	29.0	<5	15.0	<5	<5	48.0	180	<2	<5	87.0	<1	2.0	90	6.2	30.0	<0.1
11/21/19	SB8-N2-5'	SB8-N2	5	<3	<3	<5	5.9	<5	<5	19.0	25.0	<2	<5	34.0	<1	<2	9.9	5.3	8.5	<0.1
11/21/19	SB8-N2-10'	SB8-N2	10	<3	3.4	<5	4.3	<5	<5	18.0	24.0	<2	<5	23.0	<1	<2	8.0	4.5	9.8	<0.1
11/22/19	SB8-E1-1'	SB8-E1	1	<3	5.6	<5	8.3	<5	<5	27.0	42.0	<2	<5	50.0	<1	<2	14.0	6.4	7.6	<0.1
11/22/19	SB8-E1-5'	SB8-E1	5	<3	6.1	<5	6.2	<5	<5	22.0	30.0	<2	<5	51.0	<1	<2	8.3	5.6	8.2	<0.1
11/22/19	SB8-E1-10'	SB8-E1	10	<3	3.5	<5	7.2	<5	<5	23.0	29.0	<2	<5	33.0	<1	<2	12.0	5.1	9.4	<0.1
11/22/19	SB8-E2-1'	SB8-E2	1	<2.7	15.0	<4.5	17.0	<4.5	<4.5	67.0	160	<1.8	<4.5	280	<0.91	<1.8	290	6.1	53.0	<0.1
11/22/19	SB8-E2-5'	SB8-E2	5	<3	3.4	<5	8.4	<5	<5	25.0	28.0	<2	<5	36.0	<1	<2	12.0	6.2	9.6	<0.1
11/22/19	SB8-E2-10'	SB8-E2	10	<3	3.2	<5	10.0	<5	<5	34.0	40.0	<2	<5	66.0	<1	<2	21.0	8.5	26.0	<0.1
11/22/19	SB8-S1-1'	SB8-S1	1	<3	16.0	<5	11.0	<5	<5	39.0	70.0	<2	<5	48.0	<1	<2	22.0	7.6	17.0	<0.1
11/22/19	SB8-S1-5'	SB8-S1	5	<3	3.2	<5	7.6	<5	<5	23.0	27.0	<2	<5	41.0	<1	<2	13.0	6.2	9.7	<0.1
11/22/19	SB8-S1-10'	SB8-S1	10	<3	3.7	<5	6.8	<5	<5	18.0	22.0	<2	<5	29.0	<1	<2	8.3	4.4	9.0	<0.1
11/22/19	SB8-S2-1'	SB8-S2	1	<3	11.0	<5	9.5	<5	<5	49.0	69.0	<2	<5	240	<1	<2	55	7.2	22.0	<0.1
11/22/19	SB8-S2-5'	SB8-S2	5	<3	4.2	<5	7.2	<5	<5	24.0	27.0	<2	<5	48.0	<1	<2	12.0	5.8	10.0	<0.1
11/22/19	SB8-S2-10'	SB8-S2	10	<3	5.3	<5	10.0	<5	<5	30.0	40.0	<2	<5	49.0	<1	<2	17.0	8.0	14.0	<0.1
11/21/19	SB8-W1-1'	SB8-W1	1	<3	23.0	5.5	67.0	<5	<5	91.0	200	<2	<5	300	<1	2.1	540	8.4	70.0	<0.1
11/21/19	SB8-W1-5'	SB8-W1	5	<3	<3	<5	6.3	<5	<5	22.0	26.0	<2	<5	41.0	<1	<2	8.0	5.4	8.8	<0.1
11/21/19	SB8-W1-10'	SB8-W1	10	<3	4.2	<5	6.8	<5	<5	18.0	22.0	<2	<5	25.0	<1	<2</				

Table 4: Cumulative Soil Metals Laboratory Results (µg/kg)

EPA Method				6010B / 7471A (mg/kg)																
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	Antimony	Lead	Molybdenum	Nickel	Selenium	Thallium	Vanadium	Zinc	Silver	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Mercury
11/26/19	SB15-N1-1'	SB15-N1	1	<3	65	<5	9.7	<5	<5	36.0	94.0	<2	<5	60.0	<1	<2	37.0	6.9	13.0	<0.1
11/26/19	SB15-N1-5'	SB15-N1	5	<3	3.1	<5	7.0	<5	<5	22.0	26.0	<2	<5	34.0	<1	<2	11.0	5.7	7.5	<0.1
11/26/19	SB15-N1-10'	SB15-N1	10	<3	3.1	<5	8.4	<5	<5	31.0	34.0	<2	<5	37.0	<1	<2	12.0	6.8	9.2	<0.1
11/26/19	SB15-N2-1'	SB15-N2	1	<3	6.5	<5	11.0	<5	<5	30.0	45.0	<2	<5	48.0	<1	<2	33.0	6.7	11.0	<0.1
11/26/19	SB15-N2-5'	SB15-N2	5	<3	3.9	<5	8.0	<5	<5	23.0	25.0	<2	<5	29.0	<1	<2	12.0	5.2	11.0	<0.1
11/26/19	SB15-N2-10'	SB15-N2	10	<3	3.4	<5	6.8	<5	<5	22.0	25.0	<2	<5	29.0	<1	<2	10.0	5.7	7.7	<0.1
11/26/19	SB15-E1-1'	SB15-E1	1	<3	3.0	<5	6.5	<5	<5	21.0	24.0	<2	<5	31.0	<1	<2	9.4	5.4	7.9	<0.1
11/26/19	SB15-E1-5'	SB15-E1	5	<3	3.9	<5	7.5	<5	<5	21.0	29.0	<2	<5	39.0	<1	<2	12.0	5.9	8.6	<0.1
11/26/19	SB15-E1-10'	SB15-E1	10	<3	3.4	<5	9.2	<5	<5	23.0	30.0	<2	<5	36.0	<1	<2	11.0	5.2	12.0	<0.1
11/26/19	SB15-E2-1'	SB15-E2	1	<3	12.0	<5	11.0	<5	<5	35.0	71.0	<2	<5	54.0	<1	<2	20.0	8.3	13.0	<0.1
11/26/19	SB15-E2-5'	SB15-E2	5	<3	<3	<5	8.0	<5	<5	26.0	34.0	<2	<5	44.0	<1	<2	11.0	6.7	9.1	<0.1
11/26/19	SB15-E2-10'	SB15-E2	10	<3	5.5	<5	8.2	<5	<5	24.0	39.0	<2	<5	46.0	<1	<2	13.0	5.9	11.0	<0.1
11/25/19	SB15-S1-1'	SB15-S1	1	<3	21.0	<5	12.0	<5	<5	32.0	82.0	2.7	<5	51.0	<1	<2	260	7.8	24.0	<0.1
11/25/19	SB15-S2-1'	SB15-S2	1	<3	27.0	<5	10.0	<5	<5	31.0	97.0	<2	<5	45.0	<1	<2	15.0	7.4	12.0	<0.1
11/25/19	SB15-S2-5'	SB15-S2	5	<3	4.1	<5	9.3	<5	<5	29.0	30.0	<2	<5	44.0	<1	<2	15.0	7.0	12.0	<0.1
11/25/19	SB15-W1-1'	SB15-W1	1	<3	3.8	<5	7.5	<5	<5	24.0	31.0	<2	<5	35.0	<1	<2	17.0	5.8	10.0	<0.1
11/25/19	SB15-W1-4'	SB15-W1	4	<3	4.3	<5	9.0	<5	<5	31.0	28.0	<2	5.8	38.0	<1	<2	15.0	7.1	10.0	<0.1
11/25/19	SB15-W2-1'	SB15-W2	1	<3	3.8	<5	8.9	<5	<5	29.0	33.0	<2	<5	46.0	<1	<2	14.0	6.9	8.2	<0.1
11/25/19	SB15-W2-5'	SB15-W2	5	<3	6.8	<5	9.0	<5	<5	30.0	32.0	<2	<5	45.0	<1	<2	14.0	7.5	12.0	<0.1
11/25/19	SB15-W2-10'	SB15-W2	10	<3	3.7	<5	7.5	<5	<5	21.0	26.0	<2	<5	34.0	<1	<2	10.0	5.3	11.0	<0.1
REGULATORY AGENCY SCREENING LEVELS																				
Commercial/Industrial Soil RSL				470	320	5,800	64,000	5,800	NE	1,000	350,000	1,500	0.36 / 12.0*	220,000	6,900	9,300	NA	350	47,000	4.4
Basis				EPA	DTSC	EPA	DTSC	EPA	NE	DTSC	EPA	DTSC	DTSC / Background*	EPA	DTSC	DTSC	NA	EPA	EPA	DTSC
WASTE CHARACTERIZATION CRITERIA																				
TTLc				500	1,000	3,500	2,000	100	700	2,400	5,000	500	500	10,000	75	100	500	8,000	2,500	20
10X STLc				150	50	3,500	200	10	70	240	2,500	50	50	1,000	8	10	50	800	250	2

Notes:

EPA = Environmental Protection Agency

mg/kg = milligrams per kilogram

bgs = below ground surface

< = not detected above indicated laboratory Reporting Limit (RL)

NA = not applicable

RSL = April 2019 Department of Toxic Substances Control (DTSC) Regional Screening Levels (RSLs). If DTSC RSLs do not exist, May 2019 United States EPA RSLs were utilized (April 2019)

* = Background level established by the DTSC in a report titled Determination of a Southern California Regional Background Arsenic Concentration in Soil (2008)

Blue highlight indicates concentration exceeds TCLP

TTLc = total threshold limit concentration: any constituent exceeding TTLc waste characterization criteria is considered a hazardous waste in California

STLc = soluble threshold limit concentration: TTLc results are compared to 10x the STLc to determine if STLc analysis is required for further waste characterization

Yellow highlight indicates concentration exceeds 10 x STLc value and thus requires analysis by STLc

Table 5: Soil Sample STLC Metals Laboratory Results

EPA Method				TTLC - Metals Via 6010B			STLC - Metals Via WET			TCLP - Metals Via WET	
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	Lead	Chromium		Lead	Chromium		Lead	Chromium
				mg/kg			mg/L			mg/L	
Partner - Additional Phase II Subsurface Investigation (November 2019)											
11/27/19	SB2-E1-1'	SB2-E1	1	100	17		2.6	-		-	-
11/27/19	SB2-S1-1'	SB2-S1	1	64	16		1.9	-		-	-
11/21/19	SB8-N2-1'	SB8-N2	1	29	90		-	1.9		-	-
11/22/19	SB8-E2-1'	SB8-E2	1	15	290		-	1.4		-	-
11/22/19	SB8-S2-1'	SB8-S2	1	11	55		-	<0.25		-	-
11/21/19	SB8-W1-1'	SB8-W1	1	23	540		-	0.59		-	-
11/26/19	SB15-N1-1'	SB15-N1	1	65	37		2	-		-	-
11/25/19	SB15-S1-1'	SB15-S1	1	21	260		-	0.51		-	-
10X STLC				50	50		-	-		-	-
STLC				-	-		5	5		-	-
TCLP				-	-		-	-		5	5

Notes:

EPA = Environmental Protection Agency

TTLC = total threshold limit concentration; any constituent exceeding TTLC waste characterization criteria is considered a hazardous waste in California

STLC = soluble threshold limit concentration; TTLC results are compared to 10x the STLC to determine if STLC analysis is required for further waste characterization

WET = waste extraction test

bgs = below ground surface

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Values in bold exceed laboratory MDLs

< = not detected above indicated laboratory Reporting Limit (RL)

- = Not analyzed for this analyte

NA = not applicable

Yellow highlight indicates concentration exceeds 10 x STLC value and thus requires analysis by STLC

Orange highlight indicates concentration exceeds STLC

Blue highlight indicates concentration exceeds TCLP

Additional Phase II Subsurface Investigation

Whittram Fontana

14253, 14315, and 14339 Whittram Avenue

Fontana, California 92335

Partner Project Number: SM19-259094

February 2020

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Table 6: Cumulative Soil Gas VOCs Laboratory Results (µg/m³)

Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	EPA Method																									Other VOCs		
				PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Acetone	Chloroform	Heptane	Hexane	1,3-Butadiene	Dichlorodifluoro methane	Carbon Disulfide	4-Ethyltoluene	Styrene	Tetrahydrofuran	Trichlorofluorom ethane	1,3,5-TMB	1,2,4-TMB	2-Butanone (MEK)		Methyl isobutyl ketone (MIBK)	Isopropyl alcohol
HMC - Soil and Soil Gas Investigation (September 2019)																															
8/22/19	HMC SB-1-5'	HMC SB-1	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-2-5'	HMC SB-2	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	1,300	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-3-5'	HMC SB-3	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	540	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-4-5'	HMC SB-4	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/23/19	HMC SB-5-5'	HMC SB-5	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/23/19	HMC SB-5-5'-REP	HMC SB-5	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-6-5'	HMC SB-6	5	<100	<100	<500	<500	<500	<50	<100	<1000	530	2,200	590	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-7-5'	HMC SB-7	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-8-5'	HMC SB-8	5	<100	<100	<500	<500	<500	<50	<100	<1000	660	2,700	730	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-9-5'	HMC SB-9	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/23/19	HMC SB-10-5'	HMC SB-10	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-11-5'	HMC SB-11	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	700	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-12-5'	HMC SB-12	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	740	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-13-5'	HMC SB-13	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	<500	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/22/19	HMC SB-14-5'	HMC SB-14	5	<100	<100	<500	<500	<500	<50	<100	<1000	<500	1,200	<500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
8/23/19	HMC SB-15-5'	HMC SB-15	5	<100	<100	<500	<500	<500	<50	<100	<1000	5,400	19,000	5,500	NA	<100	NA	NA	NA	<500	NA	NA	<500	NA	<500	<500	<500	NA	NA	NA	ND
Partner - Additional Phase II Subsurface Investigation (November 2019)																															
11/21/19	SB6-N1-5'	SB6-N1	5	5.8	<5.5	<4	<4	<4	<2.6	<3.3	670	2.8	11.0	3.5	23.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	<5	4.1	<15	<42	11.0	ND
11/21/19	SB6-N1-15'	SB6-N1	15	5.3	<5.5	<4	<4	<4	<2.6	<3.3	52.0	4.6	21.0	6.8	22.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	18.0	3.9	12.0	8.3	<42	11.0	ND
11/21/19	SB6-N1-21'	SB6-N1	21	14.0	<5.5	<4	<4	<4	<2.6	<3.3	510	2.5	12.0	6.5	330	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	17.0	<5	<5	11.0	<42	11.0	ND
11/21/19	SB6-N2-5'	SB6-N2	5	580	<5.5	<4	<4	<4	<2.6	<3.3	34.0	1.6	4.9	<4.4	67.0	10.0	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	2.2	<5	<5	15.0	5.4	22.0	ND
11/21/19	SB6-N2-15'	SB6-N2	15	110	3.8	<4	<4	<4	<2.6	1.2	64.0	2.3	11.0	4.6	55.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	<5	7.8	<15	<42	<13	ND
11/21/19	SB6-N2-25'	SB6-N2	25	68.0	150	<4	<4	<4	<2.6	<3.3	77.0	5.7	25.0	6.9	56.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	10.0	2.4	5.9	9.3	<42	<13	ND
11/21/19	SB6-E1-5'	SB6-E1	5	15.0	16.0	<4	<4	<4	<2.6	<3.3	220	1.8	8.7	3.7	25.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	<5	2.4	<15	<42	<13	ND
11/21/19	SB6-E1-12'	SB6-E1	12	89.0	5.7	<4	<4	<4	<2.6	1.3	41.0	1.5	5.8	2.6	47.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	21.0	<5	<5	12.0	<42	34.0	ND
11/21/19	SB6-E2-5'	SB6-E2	5	14.0	<5.5	<4	<4	<4	<2.6	1.8	390	2.9	14.0	6.5	<12	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	36.0	<5	6.1	<15	2.0	19.0	ND
11/21/19	SB6-E2-13'	SB6-E2	13	7.2	<5.5	<4	<4	<4	<2.6	2.3	92.0	2.2	7.9	3.1	<12	<5	<4.2	7.6	<4.5	<5	<3.2	<5	<4.3	<3	58.0	<5	<5	21.0	<42	14.0	ND
11/21/19	SB6-S1-5'	SB6-S1	5	5.8	<5.5	<4	<4	<4	<2.6	<3.3	140	1.5	9.3	4.8	32.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	<5	4.8	<15	<42	<13	ND
11/21/19	SB6-S1-10'	SB6-S1	10	5.9	5.9	<4	<4	<4	<2.6	<3.3	160	1.8	8.8	5.2	83.0	<5	<4.2	14.0	<4.5	<5	<3.2	<5	<4.3	<3	7.9	<5	3.8	17.0	<42	98.0	ND
11/21/19	SB6-S1-17'	SB6-S1	17	11.0	18.0	<4	<4	<4	<2.6	1.8	220	3.0	14.0	6.9	92.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	14.0	<5	4.9	24.0	4.7	<13	ND
11/21/19	SB6-S2-5'																														

EPA Method				8260B / TO-15																												
Date Sampled	Sample Identification	Sample Location	Sample Depth (feet bgs)	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Acetone	Chloroform	Heptane	Hexane	1,3-Butadiene	Dichlorodifluoro methane	Carbon Disulfide	4-Ethyltoluene	Styrene	Tetrahydrofuran	Trichlorofluoromethane	1,3,5-TMB	1,2,4-TMB	2-Butanone (MEK)	Methyl Isobutyl ketone (MIBK)	Isopropyl alcohol	Other VOCs	
11/26/19	SB8-W1-5'	SB8-W1	5	15.0	<5.5	<4	<4	<4	<2.6	<3.3	41.0	<4.4	5.1	3.1	25.0	<5	<4.2	2.7	<4.5	2.0	<3.2	2.5	<4.3	<3	2.7	1.7	9.4	5.1	2.8	3.7	ND	
11/26/19	SB8-W1-15'	SB8-W1	15	5.0	<5.5	<4	<4	<4	<2.6	<3.3	45.0	<4.4	1.9	<4.4	14.0	<5	<4.2	<3.6	<4.5	<5	1.1	<5	<4.3	<3	7.1	<5	1.7	9.3	<42	<13	ND	
11/26/19	SB8-W1-25'	SB8-W1	25	3.9	<5.5	<4	<4	<4	<2.6	<3.3	26.0	<4.4	2.0	<4.4	7.4	<5	<4.2	<3.6	<4.5	<5	1.1	<5	<4.3	<3	13.0	<5	2.7	4.5	<42	<13	ND	
11/26/19	SB8-W2-5'	SB8-W2	5	11.0	<5.5	<4	<4	<4	<2.6	<3.3	4.1	<4.4	<8.8	<4.4	8.1	1.6	<4.2	3.7	<4.5	1.6	<3.2	<5	<4.3	<3	3.8	<5	<5	4.2	<42	<13	ND	
11/26/19	SB8-W2-15'	SB8-W2	15	<6.9	3.1	<4	<4	<4	<2.6	<3.3	27.0	<4.4	1.9	<4.4	10.0	<5	<4.2	<3.6	<4.5	<5	1.2	<5	<4.3	<3	9.8	<5	2.8	7.3	<42	<13	ND	
11/26/19	SB8-W2-25'	SB8-W2	25	3.1	9.1	<4	<4	<4	<2.6	<3.3	55.0	<4.4	5.3	4.1	15.0	<5	<4.2	<3.6	<4.5	1.8	1.3	3.5	<4.3	<3	15.0	2.8	14.0	3.4	<42	7.3	ND	
11/27/19	SB15-N1-5'	SB15-N1	5	6.8	<5.5	<4	<4	<4	<2.6	<3.3	5.0	<4.4	4.0	1.9	<12	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	7.4	<5	<5	<15	<42	<13	ND	
11/27/19	SB15-N1-15'	SB15-N1	15	13.0	<5.5	<4	<4	<4	<2.6	<3.3	260	1.8	11.0	3.6	42.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	11.0	<5	6.8	<15	<42	14.0	ND	
11/27/19	SB15-N1-25'	SB15-N1	25	45.0	<5.5	<4	<4	<4	<2.6	<3.3	<3.8	<4.4	<8.8	<4.4	52.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	10.0	<5	<5	27.0	2.2	<13	ND	
11/27/19	SB15-N2-5'	SB15-N2	5	11.0	<5.5	<4	<4	<4	<2.6	<3.3	130	50.0	260	81.0	36.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	89.0	230	<15	<42	<13	ND	
11/27/19	SB15-N2-15'	SB15-N2	15	<350	<270	<200	<200	<200	<130	<160	390	91.0	320	62.0	<120	<250	<210	<180	<110	<250	<160	180	<220	<150	<290	<250	130	<150	<210	<130	ND	
11/27/19	SB15-N2-25'	SB15-N2	25	22.0	<5.5	<4	<4	<4	<2.6	<3.3	14.0	3.9	13.0	5.2	61.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	<5	3.0	27.0	6.1	<13	ND	
11/27/19	SB15-E1-5'	SB15-E1	5	8.1	<5.5	<4	<4	<4	<2.6	<3.3	290	5.2	29.0	10.0	19.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	12.0	33.0	<15	1.9	<13	ND	
11/27/19	SB15-E1-15'	SB15-E1	15	510	<5.5	<4	<4	<4	<2.6	<3.3	31.0	1.6	6.9	2.2	73.0	11.0	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	14.0	<5	<5	39.0	<42	<13	ND	
11/26/19	SB15-E2-5'	SB15-E2	5	9.0	<5.5	<4	<4	<4	<2.6	15	62.0	10.0	39.0	12.0	54.0	<5	1.6	8.4	6.1	2.1	3.3	2.9	3.7	<3	3.7	2.9	8.3	22.0	5.1	<13	ND	
11/26/19	SB15-E2-15'	SB15-E2	15	34.0	7.0	<4	<4	<4	<2.6	6.4	280	10.0	36.0	10.0	53.0	<5	3.8	7.5	3.0	2.2	4.6	4.3	1.7	<3	9.3	1.6	3.8	31.0	6.1	<13	ND	
11/26/19	SB15-E2-20'	SB15-E2	20	62.0	1.9	<4	<4	<4	<2.6	3.0	170	2.7	5.9	1.9	74.0	2.0	<4.2	9.5	3.9	2.2	2.6	<5	<4.3	<3	13.0	<5	<5	36.0	5.9	<13	ND	
11/26/19	SB15-S1-3'	SB15-S1	3	12.0	4.5	<4	<4	<4	<2.6	<3.3	220	3.9	17.0	7.4	54.0	<5	<4.2	6.8	<4.5	2.1	3.3	3.2	<4.3	<3	3.0	2.7	7.5	10.0	3.0	<13	ND	
11/26/19	SB15-S2-5'	SB15-S2	5	5.2	<5.5	<4	<4	<4	<2.6	<3.3	280	<4.4	4.8	2.1	9.4	<5	<4.2	<3.6	<4.5	<5	2.1	<5	<4.3	<3	3.3	<5	<5	1.7	<42	<13	ND	
11/26/19	SB15-W1-4'	SB15-W1	4	3.2	<5.5	<4	<4	<4	<2.6	<3.3	270	2.9	11.0	6.4	5.4	<5	<4.2	<3.6	<4.5	2.0	3.6	<5	<4.3	<3	2.1	<5	1.9	1.2	<42	<13	ND	
11/27/19	SB15-W2-5'	SB15-W2	5	<6.9	<5.5	<4	<4	<4	<2.6	<3.3	34.0	40.0	130	51.0	73.0	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	15.0	27.0	13.0	<42	7.8	ND	
11/27/19	SB15-W2-15'	SB15-W2	15	9.3	<5.5	<4	<4	<4	<2.6	<3.3	44.0	99.0	430	160	190	<5	<4.2	<3.6	<4.5	<5	<3.2	<5	<4.3	<3	<5.7	63.0	220	43.0	8.8	<13	ND	
Old Commercial/Industrial SGSL				2,000	3,000	310,000	35,000	350,000	160	420	1,300,000	49,000	44,000	44,000	14,000,000	530	180,000	310,000	72.0	440,000	310,000	NA	4,400,000	880,000	5,300,000	180,000	31,000	31,000	31,000	31,000	NA	
Updated DTSC Commercial/Industrial SGSL				66.7	100	10,333	1,167	11,667	5.33	14.0	43,333	1,633	1,467	1,467	466,667	17.7	6,000	10,333	2.40	14,667	10,333	NA	146,667	29,333	176,667	6,000	1,033	1,033	1,033	1,033	NA	
Basis*				HERO	RSL	HERO	HERO	HERO	DTSC	HERO	HERO	RSL	RSL	RSL	RSL	RSL	RSL	RSL	HERO	RSL	RSL	NA	RSL	RSL	RSL	HERO	RSL	RSL	RSL	RSL	RSL	NA

Notes:
EPA = Environmental Protection Agency
VOCs = volatile organic compounds
µg/m³ = micrograms per cubic meter
bgs = below ground surface
PCE = tetrachloroethene
TCE = trichloroethene
DCE = dichloroethene
TMB = trimethylbenzene
< = not detected above indicated laboratory Reporting Limit (RL)
Cells highlighted in ORANGE indicate a value that exceeded commercial/industrial Soil Gas Screening Level (SGSL)
NA = not applicable
NE = not detected

Calculated SGSLs for soil gas concentrations were derived by dividing the April 2019 Department of Toxic Substances Control (DTSC) or May 2019 EPA Regional Screening Level (RSL) with an attenuation factor of 0.05 for sub-slab samples or with an attenuation factor of 0.001 for commercial/industrial settings for soil gas samples deeper than sub-slab samples. DTSC RSLs are provided in the April 2019 DTSC HHRA Note 3. Where DTSC RSLs were not available, EPA RSLs were utilized.

* = Most conservative Screening Level (SL) between EPA's Regional Screening Levels (RSLs) (May 2019) and Department of Toxic Substances Control's (DTSC's) Human and Ecological Risk Office (HERO) Note 3 (April 2019)

FIGURES

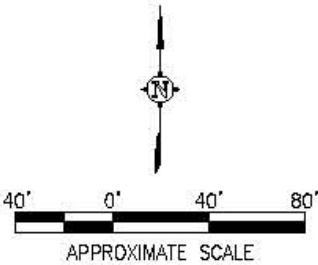
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Copyright Partner Engineering and Science, Inc., 2019



LEGEND:

--- PROPERTY LINE

NOTES:



TITLE:

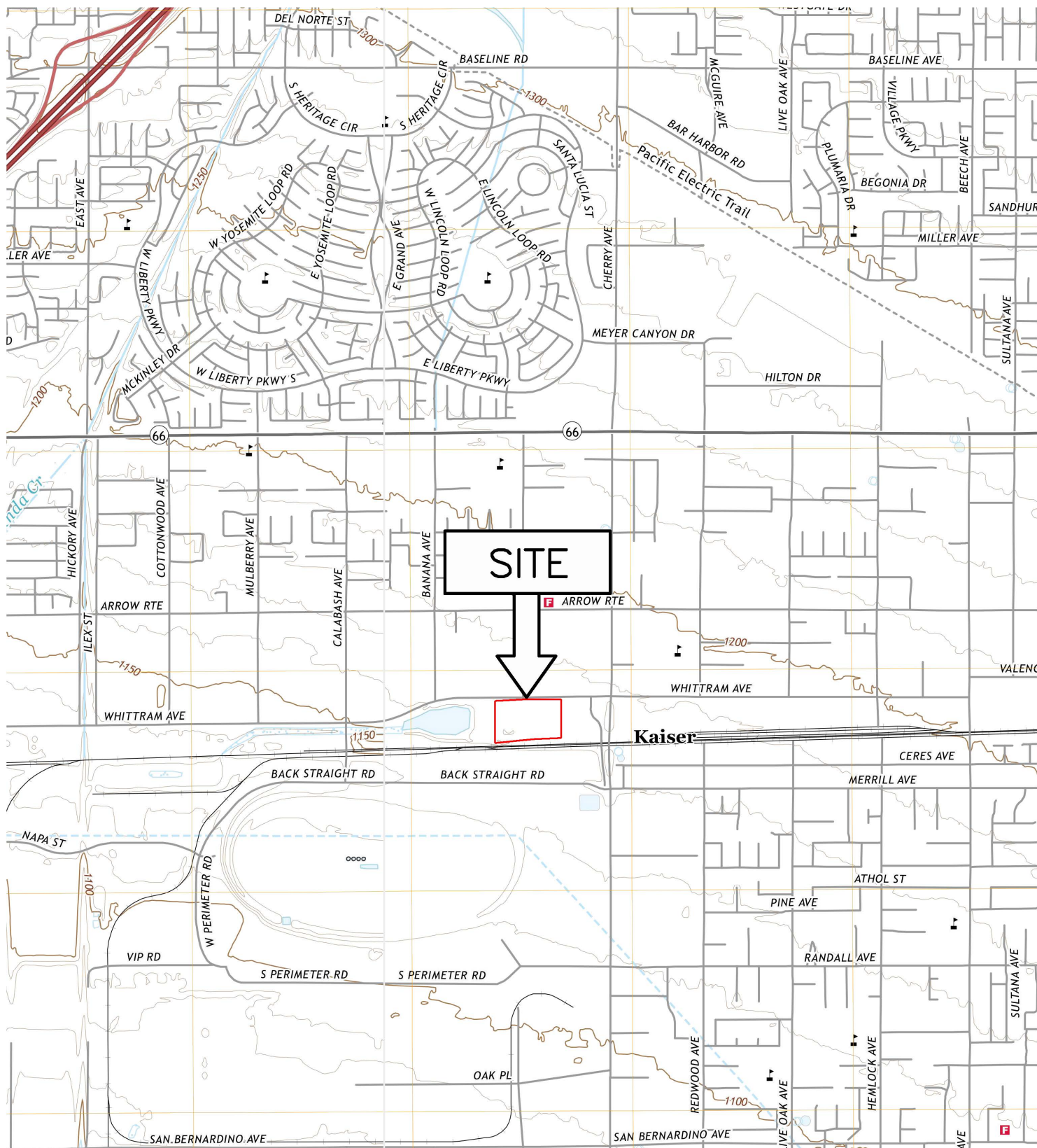
SITE PLAN

FIGURE: 1	PREPARED BY: DH	DATE: DECEMBER 2019	PROJECT NUMBER: SM19-259094
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ADDRESS:
DEDEUX WHITTRAM FONTANA
14253, 14315, AND 14339 WHITTRAM AVENUE
FONTANA, CALIFORNIA 92336

PARTNER
Engineering and Science, Inc.

2154 TORRANCE BOULEVARD, SUITE 200
TORRANCE, CALIFORNIA 90501

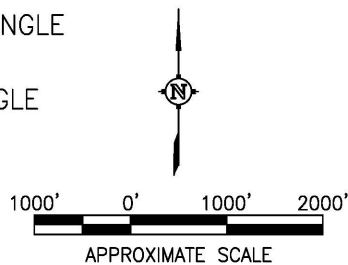


LEGEND:

USGS 7.5 MINUTE FONTANA, CALIFORNIA QUADRANGLE
CREATED 2018

USGS 7.5 MINUTE GUASTI, CALIFORNIA QUADRANGLE
CREATED 2018

— PROPERTY LINE



TITLE: TOPOGRAPHIC SITE VICINITY MAP

FIGURE:	PREPARED BY:	DATE:	PROJECT NUMBER:
2	DH	DECEMBER 2019	SM19-259094

ADDRESS:
DEDEAUX WHITTRAM FONTANA
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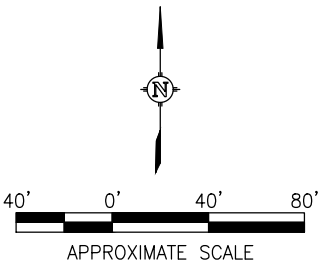
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File: C:\Users\dhorell\AppData\Local\Temp\MapPublic_13480\19-259094_Dedeaux Whittram Fontana.dwg, -----> 3 Boring Locations
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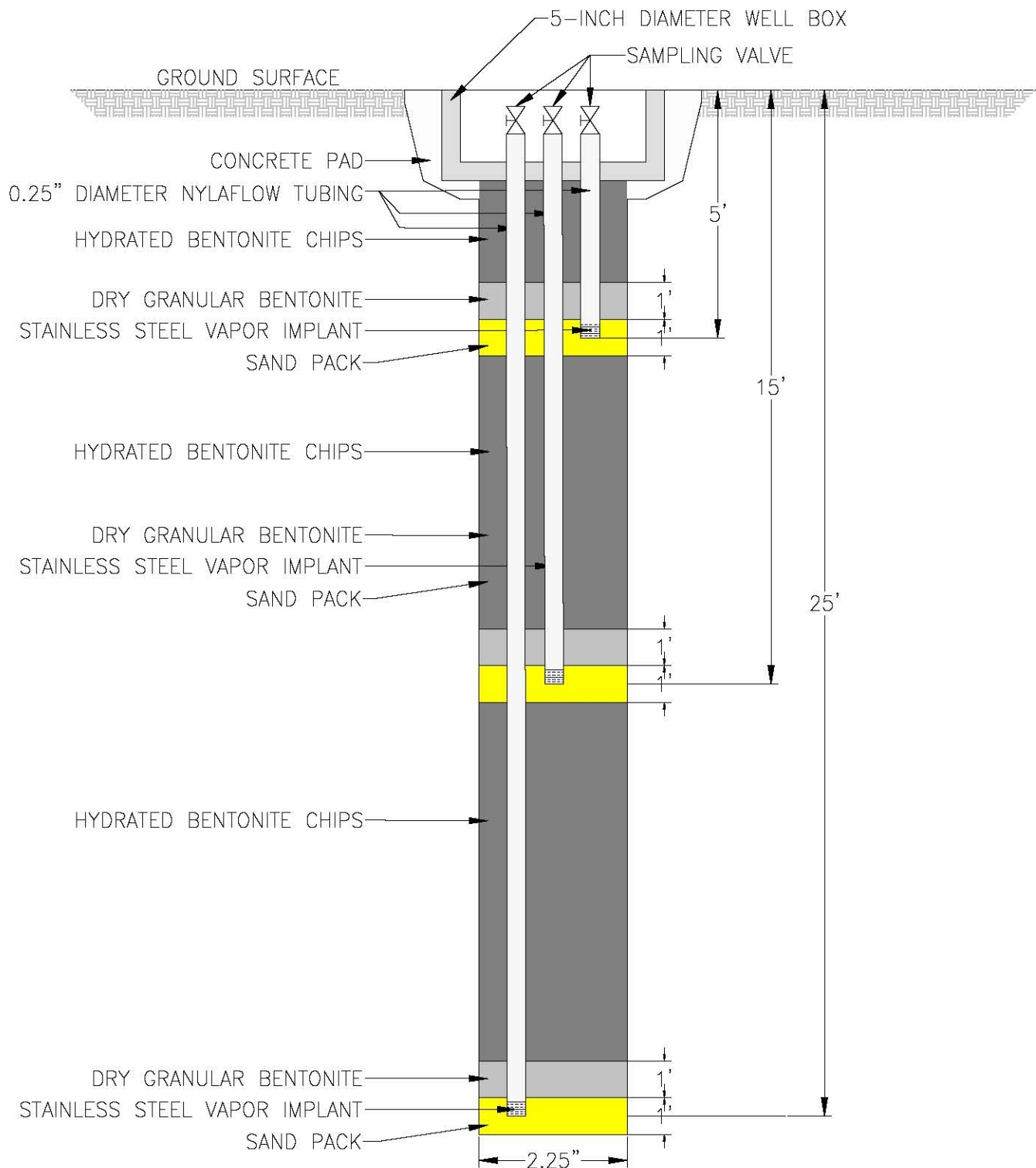
LEGEND:

- PROPERTY LINE
- PLANNED BUILDING OUTLINE
- PLANNED SEPTIC SYSTEM
- PLANNED INFILTRATION GALLERY
- STANTEC BASELINE BORINGS
- HMC PHASE II BORING
- PARTNER PHASE II BORING

NOTES:



TITLE: BORING AND SAMPLE LOCATION MAP			
FIGURE: 3	PREPARED BY: DH	DATE: DECEMBER 2019	PROJECT NUMBER: SM19-259094
ADDRESS: DEDEAUX WHITTRAM FONTANA 14253, 14315, AND 14339 WHITTRAM AVENUE FONTANA, CALIFORNIA 92335			
PARTNER Engineering and Science, Inc. 2154 TORRANCE BOULEVARD, SUITE 200 TORRANCE, CALIFORNIA 90501			



NOTES:

- NOT TO SCALE
- TYPICAL SOIL GAS DEPICTED, OTHER DEPTHS MAY BE CONSTRUCTED DUE TO FIELD CONDITIONS

TITLE: NESTED SOIL GAS PROBE CONSTRUCTION
DIAGRAM

FIGURE: 4	PREPARED BY: DH	DATE: DECEMBER 2019	PROJECT NUMBER: SM19-259094
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ADDRESS:

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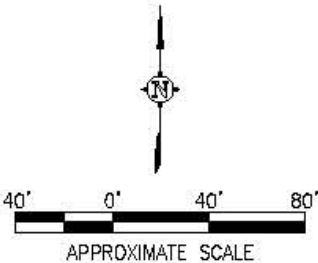


LEGEND:

- PROPERTY LINE
- PROPOSED BUILDING OUTLINE
- PROPOSED SEPTIC SYSTEM
- PROPOSED INFILTRATION GALLERY
- STANTEC BASELINE BORINGS
- HMC PHASE II BORING
- PARTNER PHASE II BORING

NOTES:

- DEPTHS PRESENTED IN FEET BELOW GROUND SURFACE (BGS)
- CONCENTRATIONS PRESENTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- CELLS HIGHLIGHTED IN BLUE INDICATE A VALUE THAT EXCEEDS SOUTHERN CALIFORNIA BACKGROUND LEVEL FOR ARSENIC ESTABLISHED BY THE DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC) IN THE DOCUMENT TITLED "DETERMINATION OF A SOUTHERN CALIFORNIA REGIONAL BACKGROUND ARSENIC CONCENTRATION IN SOIL" (2008)



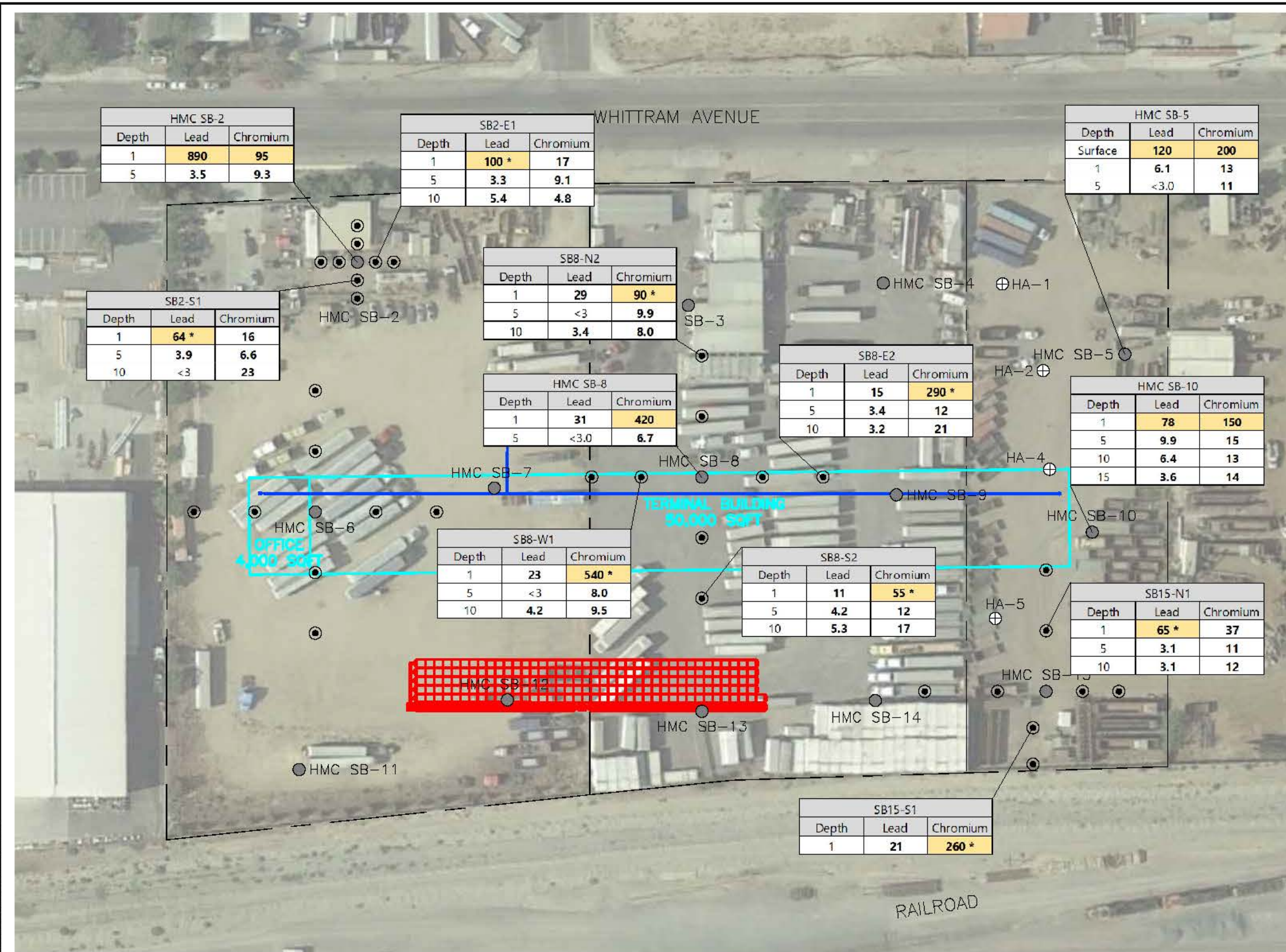
TITLE:
CONCENTRATIONS OF ARSENIC IN SOIL EXCEEDING
SOUTHERN CALIFORNIA BACKGROUND LEVELS

FIGURE: 5 PREPARED BY: DH DATE: DECEMBER 2019 PROJECT NUMBER: SM19-259094

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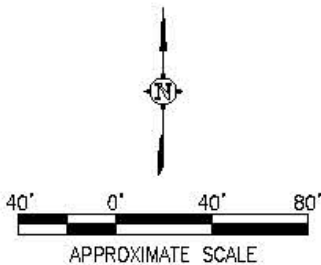


LEGEND:

- PROPERTY LINE
- PROPOSED BUILDING OUTLINE
- PROPOSED SEPTIC SYSTEM
- PROPOSED INFILTRATION GALLERY
- STANTEC BASELINE BORINGS
- HMC PHASE II BORING
- PARTNER PHASE II BORING

NOTES:

- DEPTHS PRESENTED IN FEET BELOW GROUND SURFACE (BGS)
- TTL = TOTAL THRESHOLD LIMIT CONCENTRATION
- STL = SOLUBLE THRESHOLD LIMIT CONCENTRATION
- WET = WASTE EXTRACTION TEST
- TTL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- STL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L)
- CELLS HIGHLIGHTED IN YELLOW INDICATE A VALUE THAT EXCEEDS 10X THE STL
- < = NOT DETECTED ABOVE LABORATORY REPORTING LIMIT (RL)
- * = WET EXTRACTION TEST (WET) PERFORMED ON SAMPLE. RESULTS DID NOT EXCEED THE STL



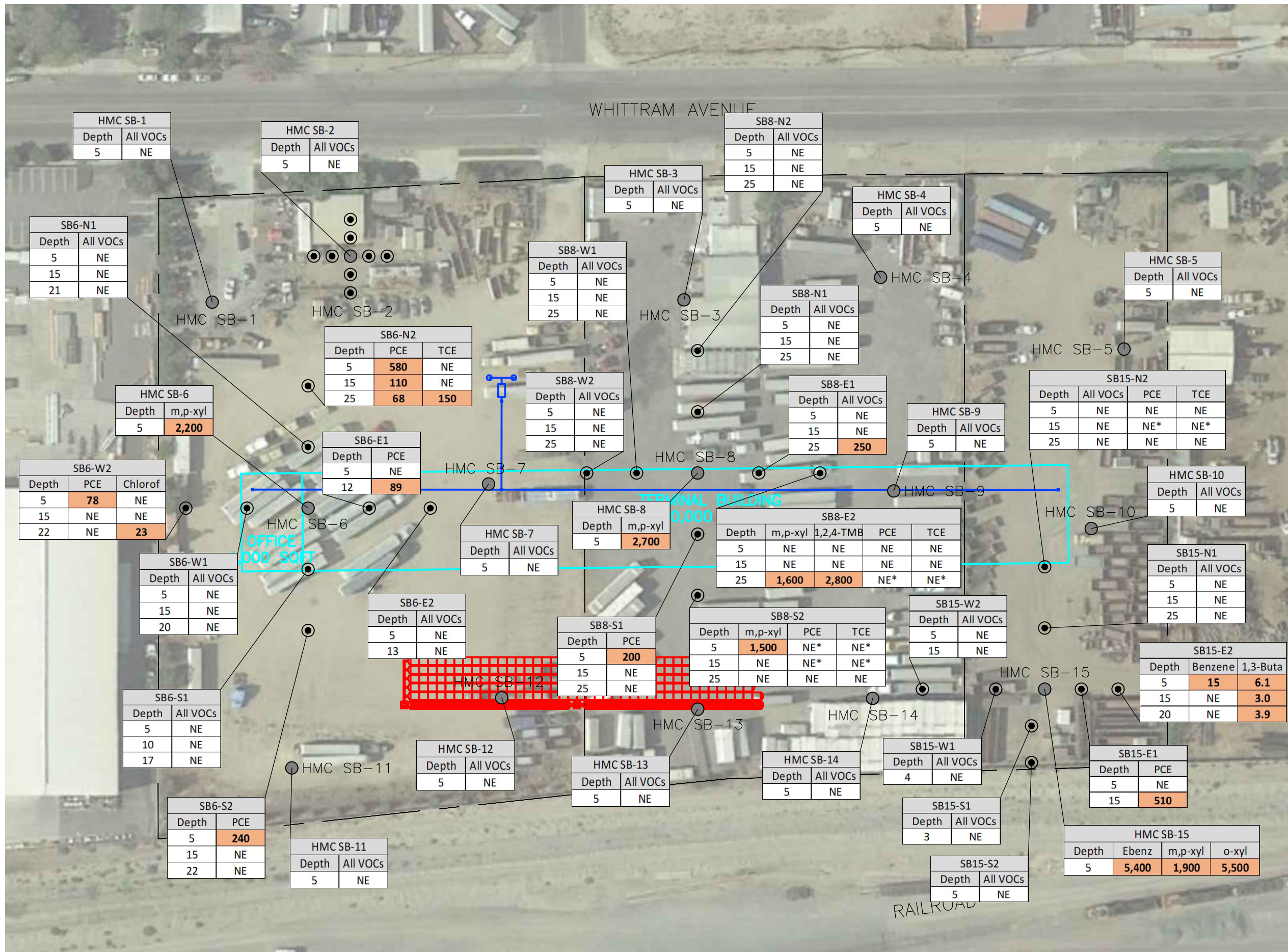
TITLE:
CONCENTRATIONS OF METALS IN SOIL FOR
WASTE CHARACTERIZATION

FIGURE: 6 PREPARED BY: DH DATE: DECEMBER 2019 PROJECT NUMBER: SM19-259094

ADDRESS:
DEDEAUX WHITTRAM FONTANA
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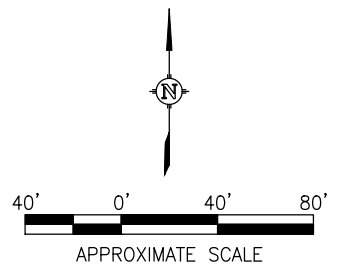


LEGEND:

- PROPERTY LINE
- PROPOSED BUILDING OUTLINE
- PROPOSED SEPTIC SYSTEM
- PROPOSED INFILTRATION GALLERY
- HMC PHASE II BORING
- PARTNER PHASE II BORING

NOTES:

- DEPTHS PRESENTED IN FEET BELOW GROUND SURFACE (BGS)
- VOCs = VOLATILE ORGANIC COMPOUNDS
- PCE = TETRACHLOROETHENE
- TCE = TRICHLOROETHENE
- TMB = TRIMETHYLBENZENE
- EBENZ = ETHYLBENZENE
- CHLOROF = CLOROFORM
- XYL = XYLENES
- BUTA = BUTADIENE
- CONCENTRATIONS PRESENTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)
- CELLS HIGHLIGHTED IN ORANGE INDICATE A VALUE THAT EXCEEDS THE CALCULATED COMMERCIAL/INDUSTRIAL SOIL GAS SCREENING LEVEL (SGSL)
- NE = NO EXCEEDANCES OF THE SGSL
- NE* = NO DETECTION OF ANALYTE, BUT LABORATORY REPORTING LIMIT (RL) EXCEEDED THE SGSL



TITLE:
CONCENTRATIONS OF VOCs IN SOIL GAS
EXCEEDING COMMERCIAL SGSLs

FIGURE: 7 PREPARED BY: DH DATE: DECEMBER 2019 PROJECT NUMBER: SM19-259094

ADDRESS:
DEDEAUX WHITTRAM FONTANA
14253, 14315, AND 14339 WHITTRAM AVENUE
FONTANA, CALIFORNIA 92335

PARTNER
Engineering and Science, Inc.

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TORRANCE, CALIFORNIA 90501

APPENDIX A: GPRS JOB SUMMARY REPORT



Job Summary

Job Date : 11/14/2019

Customer	Partner Engineering & Science, Inc		Phone Number						
Billing Address	City	State	Zip						
1761 East Garry Avenue	Santa Ana	CA	92705						
Job Details									
<table><tr><td>Jobsite Location</td><td>14253 Whittram Ave</td></tr><tr><td>City</td><td>Fontana</td></tr><tr><td>State</td><td>CA</td></tr></table>				Jobsite Location	14253 Whittram Ave	City	Fontana	State	CA
Jobsite Location	14253 Whittram Ave								
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<table><tr><td>WA Number</td><td>161755</td></tr><tr><td>Job Num</td><td>SM19-259094</td></tr><tr><td>PO Num</td><td>SM19-259094</td></tr></table>				WA Number	161755	Job Num	SM19-259094	PO Num	SM19-259094
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Job Num	SM19-259094								
PO Num	SM19-259094								
Lead Technician	HANAHAN, RYAN	Phone	213-200-2878 Email ryan.hanahan@gprsinc.com						
Thank you for using GPRS on your project. We appreciate the opportunity to work with you. If you have questions regarding the results of this scanning, please contact the lead GPRS technician on this project.									
EQUIPMENT USED									
The following equipment was used on this project:									
<ul style="list-style-type: none">Underground Scanning GPR antenna. Typically capable of detecting objects up to 8' deep or more in ideal conditions but maximum effective depth can vary widely and depends on site and soil conditions. Depth penetration is most commonly limited by moisture and clay/conductive soils.Electromagnetic Pipe and Cable Locator. Detects electromagnetic fields. Used to actively trace conductive pipes and tracer wires, or passively detect power and radio signals traveling along conductive pipes and utilities.									
Work Performed									
Ground Penetrating Radar Systems performed the following work on this project:									
<u>Underground Utility</u>									
The scope of work included scanning the specified area to locate underground utilities. A tracer signal was sent along any accessible metallic utility or tracer wire, and the area was scanned with GPR to locate any additional targets. The locations of any detected utilities and anomalies were marked directly at the site with paint, flags, stakes, or other appropriate means, and results were reviewed with onsite personnel unless otherwise noted.									
<ul style="list-style-type: none">The scope of work included scanning the areas around proposed soil borings. A radius of approximately 10' around each proposed soil boring was scanned unless otherwise noted. A total of 32 boring locations were scanned.Scan for utilities and clear 32 boring areas.The effective depth of GPR will vary throughout a site depending on surface and soil conditions. In this area, the maximum effective GPR depth was approximately 2 feet.Scanned in three different properties starting at the address provided. Not many surface features besides fire water, high voltage, and communication. Could not get a signal on either of them. Possible plastic or abandon lines. Found one possible line using radio frequency on the electro magnetic pipe locator, recommend moving the boring slightly and SC David did. Possible abandon and fiber optic lines. Recommend hand digging for at least five feet.									



Job Summary

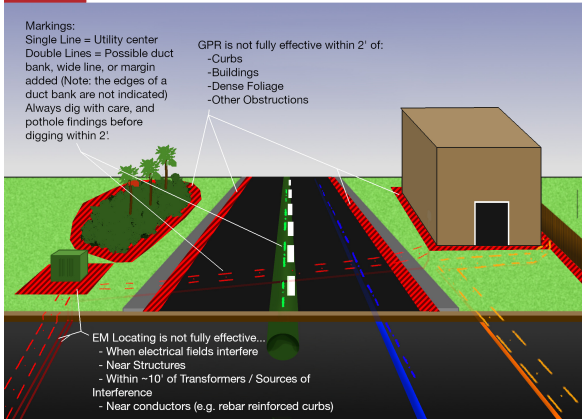
Job Date : 11/14/2019

Pictures



Common Utility Locating Limitations

There are many limitations to locating utilities, due to a variety of factors, with several more common examples illustrated here.



Utility Limitations





**SUBSURFACE
SCANNING
SOLUTIONS**

Job Summary

Job Date : 11/14/2019

TERMS & CONDITIONS

<http://www.gprsinc.com/termsandconditions.html>

SIGNATURE

Contact Name

David Horrell Dhorrell@partneresi.com

APPENDIX B: SITE-SPECIFIC HEALTH AND SAFETY PLAN

Partner Site-Specific Health and Safety Plan

Introduction

Partner Engineering and Science, Inc. (Partner) has been retained by DEDEAUX PROPERTIES, LLC to conduct an Additional Subsurface Investigation at the subject property. This Health and Safety Plan (HASP) document identifies the Health and Safety procedures that are intended to guide the field activities at the site. The details of this plan apply to employees of Partner and its subcontractors. Regulatory agencies are expected to observe the safety rules and regulations established by their respective organizations in addition to the requirements of this document.

This plan must be reviewed and acknowledged by all personnel prior to entering the exclusion zone. In general, a “Tailgate Safety Meeting” is conducted at the initiation of on-site activities and at the beginning of each day thereafter until the completion of the project. However, the actual briefing may be conducted off-site (e.g., in the office) if conditions preclude or render impractical its completion on-site.

This HASP will be a living document in that it will be continually updated and/or revised as the site conditions and knowledge of the operations develop further. The development and preparation of the HASP has been based on past experiences and site specific information at the time of preparation. If actual site conditions or operations vary from the data used to prepare this HASP, amendments shall be made to reflect those changes.

This HASP has been developed with consideration to current safety standards, health effects, and standards for known contaminants and procedures designed to account for potential hazards from known and/or suspected substances. In preparing this document, Partner has specifically reviewed Occupational Safety & Health Administration (OSHA) Title 29 Code of Federal Regulations (CFR) 1910 & 1926, California Occupational Safety & Health Administration (Cal/OSHA) Title 8 California Code of Regulations (CCR) 5192, the National Institute of Occupational Safety & Health (NIOSH)/OSHA/United States Coast Guard (USCG)/Environmental Protection Agency (EPA) Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, NIOSH Pocket Guide to Chemical Hazards, and the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH) Threshold Limit Values for Chemical Substances and Chemical Agents.

Project Information

Project Type:	Additional Subsurface Investigation
Site Name:	Whittram Fontana
Address:	14253, 14315, and 14339 Whittram Avenue Fontana, California 92335
Partner Project Number:	SM19-259094.3

Project Scope of Work

Advance a total of 32 soil borings by direct-push method (8 each around the previous areas of exceedance – borings SB-2, SV-6, SV-8, SV-15) and collect soil samples at 1, 5, 10, 15, and 25 feet bgs. Soil vapor probes will be installed in 24 boring locations (all except the around SB-2) at 5, 15, and 25 feet bgs. Soil samples and soil vapor samples will be collected and analyzed for VOCs in accordance with EPA Method 8260B.

Utility Clearance

Have necessary underground utility notifications for subsurface work been made? ☒ Yes ☐ Not Applicable
Specify clearance dates, ticket confirmation number, and other relevant information:
Ticket #: A193180330

Site Safety Officers

The Site Safety Officer (SSO) is the individual who is capable of identifying existing and predictable hazards in surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them. The SSO is designated on a site-by-site basis based on the site conditions, scope-of-work, and the individual's ability to recognize site-specific hazards and take appropriate corrective actions. It is the responsibility of all employees to work in a manner that will prevent injury and exposure to themselves and to other employees. Every employee is responsible for obeying safety rules and regulations, and reporting unsafe conditions or acts to their supervisors.

Partner Contacts

SSO: Suzi Rosen
Technical Director
Telephone: (517) 212-9089

Alt. SSO: David Horrell, GIT
Project Manager
Telephone: (832) 265-7187

Project Contact Information

Responsible Party: Dedeaux Properties, LLC
1299 Ocean Avenue, 9th Floor
Santa Monica, California 90401

Contact: Mr. Alex Filler
(323) 981-8296
alex.f@dedeauxproperties.com

Responsible Personnel: Joe Derhake
Principal Engineer
Telephone: (310) 880-3299

List of Potential Hazardous Materials

According to preliminary site information including evaluation of the hazards at the site and Partner's experience, the following potential hazardous materials may be present at the subject property:

- Chlorinated solvents, including PCE and TCE
- TPH compounds
- Title 22 Metals

Please refer to the Chemical Hazards Section for more information related to the above listed materials, including chemical information, potential health effects, and exposure limits.

EMERGENCY CONTINGENCY INFORMATION

Evacuation Routes and Procedures

In case of evacuation, all vehicles/equipment should be turned off and personnel should immediately leave the work area. Personnel should reconnoiter at the specified meeting area located upwind of the affected area, such as the building exterior, site field office, property boundary, or other pre-designated location, where all personnel will be accounted for.

IF AN EMERGENCY ARISES, THE DESIGNATED RECONNOITER LOCATION FOR THIS PROJECT IS THE PARTNER FIELD OFFICE (VEHICLE).

This location is located up-wind of the subject property, but is subject to change if prevailing weather conditions alter typical wind direction. Personnel should not reenter the work area following evacuation until 1.) the condition causing the emergency has been corrected, 2.) all hazards have been assessed, 3.) the HASP has been reviewed, and

4.) personnel have been oriented on any changes in the HASP. All emergencies should be promptly reported to the SSO.

Emergency Response Facilities

Fire Station:	San Bernardino County Fire Department, Station 73 8143 Banana Avenue Fontana, CA 92335 Telephone: 911 or (909) 822-6053	Hospital:	Kaiser Permanente Fontana 9961 Sierra Avenue Fontana, CA 92335 Telephone: 911 or (909) 427-5000
Police:	City of Fontana Police Department 17005 Upland Avenue Fontana, CA 92335 Telephone: 911 or (909) 350-7740	Poison Control:	Kaiser Permanente Fontana 9961 Sierra Avenue Fontana, CA 92335 Telephone: 911 or (909) 427-5000
Ambulance:	Kaiser Permanente Fontana 9961 Sierra Avenue Fontana, CA 92335 Telephone: 911 or (909) 427-5000		

DIRECTIONS TO HOSPITAL EMERGENCY ROOM ATTACHED IN APPENDIX A

Air Monitoring

Air quality in the breathing zone will be monitored continuously with a MiniRae2000 photoionization detector (PID) calibrated to isobutylene. Work will proceed in Level D while PID readings are between 0 and 10 parts per million (ppm). In the event that breathing zone readings exceed 100 ppm, all personnel will discontinue work at the location and withdraw from the work area. The appropriate vapor control measures will be implemented (e.g., application of vapor suppression), the necessary emergency response authorities will be notified, and/or the work area will be re-sampled until vapor levels are within acceptable levels prior to reentering the work zone.

Please refer to the table below for the Operational Action Levels.

Contaminants	Action Level	Action to Take
VOCs (PID)	1 to 10 PPM Above background at the breathing zone and sustained for 5 minutes 10 to 100 PPM Above background at the breathing zone and sustained for 5 minutes 100 to 300 PPM Above background at the breathing zone and sustained for 1 minute >300 PPM Above background at the breathing zone and sustained for 1 minute	Level D, continuous air monitoring Upgrade to Level C, continuous air monitoring and ventilate space Upgrade to Level B, continuous air monitoring and ventilate space, or stop work and ventilate Stop work, Evacuate work zones
Combustible Gas in Air (LEL meter)	Less than 10% lower explosive limit (LEL) Greater than 10% LEL	Continue with caution and air monitoring (combustible gas monitoring) Stop work, immediately withdrawal personnel, and ventilate space with manhole blower
Oxygen in Air (O2 Meter)	Less than 19.5% 19.5 to 21.5% Greater than 21.5%	Stop work and ventilate or upgrade to Level B Level D, continue work with air monitoring Stop work, immediately withdrawal personnel, and evaluate

The PID will be calibrated daily by Partner personnel prior to use. Calibration will be performed in accordance with the manufacturer specifications and recorded in a log book kept with the instrument. Ambient breathing space measurements should be collected every 15 minutes.

Personal Protection Equipment

Based on the preliminary site information including evaluation of the hazards at the site and Partner's experience, personal protective equipment (PPE) will be required for all personnel and visitors entering the controlled portion of the site. PPE for each potential level of protection is described below. Both Level C and D PPE should be available on-site during all phases of the project, as conditions may change and require additional PPE. Work should be conducted in Level D and no breathing protection will be required as long as monitored breathing zone vapor concentrations remain in the nominal operation action level.

If on-site personnel find that breathing zone concentrations remain above nominal operation action level for more than 5 minutes, then the SSO or PM will make a determination if breathing protection is needed. At this time, all work in the affected area should be suspended until a decision is made. Implementation of Level C PPE will be required if work continues during elevated breathing zone concentrations. Donning and use of respirators shall be performed in accordance with manufacturer specifications. Replacement of respirator cartridges shall be performed in accordance with manufacturer specifications. All respirators and cartridges shall be stored in air tight bags while not in use.

Please refer to the PPE Levels of Protection for a detailed description of the equipment associated for each level of PPE.

PPE Levels of Protection

Level D (to be used at all times) is as follows:

- Full-length pants and shirt;
- Sturdy steel-toe work boots;
- Hard hat;
- Safety glasses.

Modified Level D (used as appropriate) is as follows:

- Regular Tyvek coveralls;
- Outer gloves: leather, cotton, or nitrile;
- Inner gloves: latex or nitrile;
- Sturdy steel-toe work boots;
- Hard hat;
- Safety glasses.

Level C (used as appropriate) is as follows:

- Half-face air purifying, canister equipped respirator (NIOSH-approved) equipped with Organic Vapor/HEPA cartridges/filters;
- Regular Tyvek coveralls;
- Outer gloves: leather, cotton, or nitrile;
- Inner gloves: latex or nitrile;
- Sturdy steel-toe work boots;
- Hard hat;

- Safety glasses.

Level B (used as appropriate) is as follows:

- Positive-pressure, full-face piece, self-contained breathing apparatus (SCBA) or positive-pressure supplied air respirator with escape SCBA (NIOSH-approved);
- Disposable chemical-resistant coveralls (Polycoated Tyvek);
- Outer gloves: neoprene or nitrile;
- Inner gloves: latex or nitrile;
- Sturdy steel-toe work boots;
- Petroleum-resistant covers over work boots;
- Hard hat.

Decontamination Procedures

Drilling and sampling equipment will arrive decontaminated and clean. All downhole soil and groundwater sampling equipment (e.g., sampling tubes, split spoons, hand augers, Hydropunch, etc.), tools, purge pumps, water level indicators, etc. will be decontaminated before, between, and after use with Alconox or an equivalent phosphate-free detergent solution to reduce the risk of cross-contamination. Decontamination of all sampling equipment will consist of submerging the equipment in a detergent solution bath and scrubbing it with dedicated brushes. The equipment will then be placed in a rinse bath and agitated. A second rinse bath should occur if needed. All drilling equipment such as augers and drilling rods should be thoroughly steam cleaned and rinsed.

Nitrile outer gloves will be worn whenever handling samples, equipment, or any other potentially contaminated items. Skin exposed to direct contact with contaminants of concern will be immediately flushed with water.

Work Zone Delineation

A 15-foot exclusion zone will be delineated with caution cones as necessary to denote the work zone and area restricted to authorized project personnel.

Traffic Control

Traffic control is not anticipated to be required for this project.

Adverse Weather

The work area will be secured and all personnel will discontinue work at the location and withdraw from the work area in the event that adverse weather is encountered (e.g., heavy rain, lightning).

Emergency Equipment

A first aid kit and fire extinguisher will be located in the work vehicle in a location that is easily accessible and highly visible. The SSO will be responsible for knowing the location of and accessing the emergency equipment as needed.

Hazard Assessment

(☒ = Applies, or required item(s) available. ☐ = Not Applicable.)

Hazard Assessment: Physical Hazards and Related Concerns

- ☐ **Confined Space Entry (CSE).** Confined space entry means the potentially hazardous entry into any space which, by design, has limited openings for entry and exit and unfavorable natural ventilation that could contain or produce dangerous air contaminants and is not intended for continuous employee occupancy. Confined spaces include, but are not limited to, storage tanks, compartments of ships, process vessels, pits, silos, vats, degreasers, reaction vessels, boilers, ventilation and exhaust ducts, sewers, tunnels, underground utility vaults, and pipelines. Other environments which must be treated as confined spaces include test pits, basements, garages, warehouses, and other indoor areas where mechanical (i.e., diesel, propane, gasoline or similarly powered) equipment must be operated for drilling or excavation purposes. Confined space entry should be allowed only when absolutely necessary.
- ☒ **Construction Hazards, Drill Rigs, Backhoes, etc.** The use of drill rigs, backhoes, and other heavy equipment represent potentially serious construction hazards. Whenever such equipment is used, personnel in the vicinity should be limited to those who must be there to complete their assigned duties. All personnel must avoid standing within the turning radius of the equipment or below any suspended load. Job sites must be kept as clean, orderly, and sanitary as possible. When water is used, care must be taken to avoid creating muddy or slippery conditions. If slippery conditions are unavoidable, barriers and warning signs must be used to warn of these dangers.

Never turn your back to operating machinery. Never wear loose clothing jewelry, hair, or other personal items around rotating equipment or other equipment that could catch or ensnare personal items. Always stand far enough away from operating machinery to prevent accidental contact, which may result from mechanical or human error.

Additionally, the following basic personal protective measures must be observed: **Hardhats** must be worn to protect against bumps or falling objects. **Safety glasses** must be worn by all workers in the vicinity of drill rigs or other sources of flying objects. **Goggles**, face shields, or other forms of eye protection must be worn when necessary to protect against chemicals or other hazards. **Steel-toed safety shoes or boots** are also required. The shoes must be chemically resistant or protected with appropriately selected boots/coverings where necessary. Unless otherwise specified, normal **work clothes** must be worn. Long sleeves and gloves are also required whenever necessary to protect against hazardous contact, cuts, abrasions or other possible skin hazards.

- ☐ **Electrical.** OSHA regulations require that employees who may be exposed to electrical equipment be trained to recognize the associated hazards and the appropriate control methods. All **extension cords** used for portable tools or other equipment must be designed for hard or extra usage and be (three-wire) grounded. All 120-volt, single-phase 15- and 20-ampere receptacle outlets on construction sites and other locations where moisture/water contact may occur must be equipped with **ground-fault circuit interrupters (GFCI)** units. GFCI units must be attached directly to or as close as possible to the receptacle. GFCI located away from the receptacle will not protect any wiring between the receptacle and the GFCI unit. Only the wiring plugged into the GFCI and outward will be protected by the GFCI. All **(temporary lighting)** lamps for general illumination must be protected from accidental breakage. Metal case sockets must be grounded. Portable lighting in wet or conductive locations should be 12 volts or less.

- ☐ **Drums and Buried Drums.** As a precautionary measure, personnel must assume that labeled and unlabeled drums encountered during field activities contain hazardous materials until their contents can be confirmed and characterized. Personnel should recognize that drums are frequently mislabeled, particularly drums that are reused.

Only trained and authorized personnel should be allowed to perform drum handling. Prior to any handling, drums must be visually inspected to gain as much information as possible about their contents. Trained field personnel must look for signs of deterioration such as corrosion, rust or leaks, and for signs that the drum is under pressure such as swelling or bulging. Drum-type and drumhead configuration may provide the observer with information about the type of material inside (e.g., a removable lid is designed to contain solids, while the presence of a bung indicates liquid storage).

Although not usually anticipated, buried drums can be encountered when digging test pits. Therefore, the following provisions must be observed if drums are encountered: Machine excavation (e.g., backhoe) should cease immediately anytime a drum is encountered. The appropriate management personnel should be notified immediately. All personnel should be instructed to immediately leave the work area.

Even authorized personnel must not enter an excavation where drums have been uncovered, even for monitoring purposes, unless all provisions of OSHA's trenching and excavation standard have been met and the appropriate level of PPE is utilized. Sampling of unknown drums usually requires Level B protection. Buried drums must not be moved unless it can be accomplished in a safe manner and overpack drums are available.

- ☒ **Fire and Explosion.** The possibility of flammable materials being encountered during field activities must be recognized and the appropriate steps necessary to minimize fire and explosion must be observed. This includes situations where excessive organic vapors or free product are encountered. When this occurs, monitoring with a combustible gas indicator (CGI) is required.

Excessive organic vapors, for the purposes of initiating the use of a CGI, are defined as sustained readings (i.e., continuous for at least 5 minutes) at or above 250 units or as an instantaneous reading at or above 1,000 units on the PID or FID, in close proximity (within 1 foot or less) of the borehole, test pit, sampling location, or other area of potential exposure.

In situations where hexane and/or methanol are needed for field activities, the following precautions must be observed: Keep flammable and combustible materials away from heat, sparks and open flames; do not smoke around flammable or combustible materials; and keep all flammable and combustible liquids in approved and properly labeled safety containers.

- ☐ **Landfill/Methane Hazards.** Fire and explosion should be regarded as one of, if not the, most significant potential hazards associated with drilling operations and other intrusive work conducted at a landfill. Accordingly, all sources of ignition must be fully controlled. Failure to control ignition sources could result in fire, explosion, and pose a serious threat to life and health. Control methods may include forced ventilation and/or filling the borehole with enough water to inhibit the release of methane and other gases that would otherwise escape through the top of the borehole.

If forced (mechanical) ventilation is to be used, all such equipment must be approved for Class I, Division I hazardous atmospheres. The blower must be positioned to blow across the top of the borehole so that gases and vapors may be diluted as they exit the borehole. Do not attempt to suck out the gases or vapors. Blowers, all other mechanical equipment, and tools that could release sparks or static electricity must be bonded and grounded.

Regardless of the gas/vapor control method used, the atmosphere surrounding the borehole must be frequently monitored using direct reading instruments approved for Class I, Division I hazardous atmospheres. Monitoring should be conducted within 1 to 2 feet of the top of the borehole. Do not insert sampling devices into the borehole. Never approach the auger or drill shaft while it is in operation.

Regardless of actual instrument readings, if all sources of ignition cannot be controlled, operations should be immediately shut down and the area evacuated if readings equal or exceed 10% of LEL until ignition sources have been eliminated. Ignition sources include, but are

not limited to, smoking, static electricity, lighting, open flames, spontaneously ignitable substances, frictional heat or sparks, hot surfaces, radiant heat, electrical sparks, stray currents, cutting and welding, ovens, furnaces, and heating equipment.

- ☒ **Heat and Cold Stress.** Overexposure to temperature extremes can represent significant risks to personnel if simple precautions are not observed. Typical control measures designed to prevent **heat stress** include dressing properly, drinking plenty of the right fluids, and establishing an appropriate work/break regimen. Typical control measures designed to prevent **cold stress** also include dressing properly, and establishing an appropriate work/break regimen.
- ☒ **Moving Vehicles, Traffic Safety.** All vehicular traffic routes that could impact worker safety must be identified and communicated. Whenever necessary, barriers or other methods must be established to prevent injury from moving vehicles. This is particularly important when field activities are conducted in parking lots, driveways, ramps or roadways. OSHA 1926.201 specifies that when signs, signals or barricades do not provide adequate protection from highway or street traffic, flagmen must be utilized. Flagmen must wear red or orange garments. Garments worn at night must be reflective.
- ☒ **Noise.** Noise exposure can be affected by many factors including the number and types of noise sources (continuous vs. intermittent or impact) and the proximity to noise intensifying structures (e.g., walls or buildings) that cause noise to bounce back or echo. The single most important factor effecting total noise exposure is distance from the source. The closer one is to the source, the louder the noise. The operation of a drill rig, backhoe, or other mechanical equipment can be sources of significant noise exposure. In order to reduce the exposure to this noise, personnel working in areas of excessive noise must use hearing protectors (e.g., ear plugs, ear muffs).

Rule-of-Thumb: Wherever actual data from sound level meters or noise dosimeters is unavailable and it is necessary to raise one's voice above a normal conversational level to communicate with others within 3 to 5 feet away, hearing protection should be worn.

- ☒ **Overhead Utilities and Hazards.** Overhead hazards can include low hanging structures that can cause injury due to bumping into them. Other overhead hazards include falling objects, suspended loads, swinging loads, and rotating equipment. Hardhats must be worn by personnel in areas where these types of physical hazards may be encountered. Barriers or other methods must also be used to exclude personnel from these areas where appropriate. Electrical wires are another significant overhead hazard. According to OSHA (29 CFR 1926.550), the minimum clearance that must be maintained from overhead electrical wires is 10 feet from an electrical source rated ≤ 50 kV. Sources rated > 50 kV require a minimum clearance of 10 feet plus 0.4 inch per kV above 50 kV.
- ☒ **Pedestrian Traffic.** The uncontrolled presence of pedestrians on a drilling or excavation site can be hazardous to both pedestrians and site workers. Prior to the initiation of site activities, the site should be surveyed to determine if, when, and where pedestrian may gain access. This includes walkways, parking lots, gates, and doorways. Barriers or caution tape should be used to exclude all pedestrian traffic. Exclusion of pedestrian traffic is intended to prevent injury to the pedestrians and eliminate distractions that could cause injury to Partner personnel or other site workers.
- ☐ **Test Pit and/or other Excavations.** All provisions of the OSHA trenching and excavation standard (29 CFR 1926.650-652) must be followed during excavation activities. This includes all test pit excavation and sampling activities. The estimated location of utility installations such as sewer, telephone, electric, water lines, and other underground installations that may reasonably be expected to be encountered during excavation work, must be determined prior to opening an excavation.

Excavations in contaminated or potentially contaminated areas must be tested for confined spaces atmospheric hazards prior to entry. Excavations should not be entered if other means are available to perform the task requiring entry. If entry into an excavation is required, the atmosphere within the space must be monitored by a trained person to assure that oxygen concentrations are at greater than or equal to 19.5 percent, that combustible gas levels are less than 10 percent, and that vapor levels are within applicable safe exposure (PEL and TLV) limits.

A ladder or similar means of egress must be located in excavations greater than 4 feet in depth so as to require no more than 25 feet of lateral travel for employees. No person should be allowed to enter an excavation greater than 5 feet in depth unless the walls of the excavation have been protected using an approved shield (trench box), an approved shoring system, or the walls have been sloped back an appropriate angle, the excavation is free of accumulated water, and the excavation has been tested for hazardous atmospheres as noted previously. If personnel enter an excavation, the spoils pile and all materials must be placed at least 2 feet from the edge of the excavation to prevent the materials from rolling into the excavation. Personnel must remain at least 2 feet away from the edge of the excavation at all times. Upon completion of a test pit exploration, the excavation should be backfilled and graded. Excavations should never be left open unless absolutely necessary, and then only with proper barricading and controls to prevent accidental injury.

- ☒ **Underground Utilities and Hazards.** The identification of underground storage tanks (USTs), pipes, utilities, and other underground hazards is critically important prior to all drilling, excavating and other intrusive activities. In accordance with OSHA 29 CFR 1926.650, the estimated location of utility installations, such as sewer, telephone, electric, water lines and other underground installations that may reasonably be expected to be encountered during excavation work, must be determined prior to opening an excavation. The same requirements apply to drilling operations and the use of soil-gas probes. Where public utilities may exist, the utility agencies or operators must be contacted directly or through a utility-sponsored service such as Dig-Safe. Where other underground hazards may exist, reasonable attempts must be made to identify their locations as well. Failure to identify underground hazards can lead to fire, explosion, flooding, electrocution, or other life threatening accidents.

- ☐ **Water Hazards and Boat Sampling.** The collection of water or sediment samples on or immediately adjacent to a body of water can pose significant hazards. In addition to the slip, trip, and fall hazards associated with wet surfaces, the potential for drowning accidents must be recognized. These hazards can be intensified by the use of some PPE, particularly if respiratory protection is worn. OSHA 29 CFR 1926.106 requires that all employees working over or near water, where the danger of drowning exists, must wear a U.S. Coast Guard-approved life jacket or buoyant work vest. Ring buoys and emergency standby personnel must also be in place.

Hazard Assessment: Chemical Hazards and Related Concerns

- ☒ **Chemicals Subject to OSHA Hazard Communication.** All chemicals used in field activities such as solvents, reagents, decontamination solutions, or any other hazardous chemical must be accompanied by the required labels, Material Safety Data Sheets (MSDS), and employee training documentation (OSHA 1910.1200).
- ☐ **Asbestos.** Disturbance of building materials in buildings built prior to 1980 must be evaluated for the presence of asbestos-containing materials by an accredited Partner inspector. The inspection and/or removal of asbestos-based or asbestos-containing building materials is regulated by some major cities and several states. Regulations require individuals who conduct building inspections for the presence of asbestos or collect samples of asbestos containing materials to be licensed or certified. Partner employees must determine the applicability of these regulations prior to any activities involving asbestos. The primary health effects of asbestos exposure include asbestosis (a scarring of the lungs), lung cancer, mesothelioma, and other forms of cancer. Exposure to asbestos is regulated by a comprehensive OSHA standard (29 CFR 1910.1001).
- ☒ **BTEX Compounds.** Exposure to the vapors of **benzene, ethyl benzene, toluene, and xylenes** above their respective permissible exposure limits (PELs), as defined by OSHA, may produce irritation of the mucous membranes of the upper respiratory tract, nose, and mouth. Overexposure may also result in the depression of the central nervous system. Symptoms of such exposure include drowsiness, headache, fatigue, and drunken-like behavior. Benzene has been determined to be carcinogenic, targeting blood-forming organs and bone marrow. The odor threshold for benzene is higher than the PEL and employees may be overexposed to benzene without sensing its presence; therefore, detector tubes must be utilized to evaluate airborne concentrations.

The vapor pressures of these compounds are high enough to generate significant quantities of airborne vapor. On sites where high concentrations of these compounds are present, a potential inhalation hazard to the field team during subsurface investigations can result. However, if the site is open and the anticipated quantities of BTEX contamination are small (e.g., part per million concentrations in the soil or groundwater), overexposure potential will also be small.

- ☐ **Carbon Monoxide.** Carbon monoxide (CO) is a gas usually formed by the incomplete combustion of various fuels. Welding, cutting, and the operation of internal combustion engines can produce significant quantities of CO. Amounts of CO can quickly rise to hazardous levels in poorly ventilated areas. CO is odorless and colorless. It cannot be detected without appropriate monitoring equipment. LEL/O₂ meters and H-Nu/PID are not appropriate for the detection of CO. A direct reading instrument, calibrated for CO, should be used. Common symptoms of overexposure include pounding of the heart, a dull headache, flashes before the eyes, dizziness, ringing in the ears, and nausea. These symptoms must not be relied upon in place of an appropriately calibrated monitoring instrument. Exposures should not exceed 15 ppm. Exposures above 15 ppm require the use of supplied air respirators. Air purifying respirators are not approved for protection against CO.
- ☒ **Chlorinated Organic Compounds.** Exposure to the vapors of many chlorinated organic compounds such as vinyl chloride; tetrachloroethene; 1,1,1-trichloroethane; trichloroethene; and 1,2-dichloroethene above their respective PELs will result in similar symptoms. The actual PELs as set by OSHA vary depending on the specific compound.

Overexposure to the vapor of these compounds can cause irritation of the eyes, nose, and throat. The liquid, if splashed in the eyes, may cause burning irritation and damage. Repeated or prolonged skin contact with the liquid may cause dermatitis. Acute overexposure to chlorinated hydrocarbons depresses the central nervous system exhibiting such symptoms as drowsiness, dizziness, headache, blurred vision, incoordination, mental confusion, flushed skin, tremors, nausea, vomiting, fatigue, and cardiac arrhythmia. Alcohol may make symptoms of overexposure worse. If alcohol has been consumed, the overexposed worker may become flushed. Some of these compounds are considered to be potential human carcinogens. Exposure to vinyl chloride is regulated by a comprehensive OSHA standard (29 CFR 1910.1017).

- ☐ **Chromium Compounds.** Hexavalent chromium compounds, upon contact with the skin, can cause ulceration and possibly an allergic reaction. Inhalation of hexavalent chromium dusts is irritating and corrosive to the mucous membranes of the upper respiratory tract. Chrome ulcers and chrome dermatitis are common occupational health effects from prolonged and repeated exposure to hexavalent chromium compounds. Acute exposures to hexavalent chromium dusts may cause coughing or wheezing, pain on deep inspiration, tearing, inflammation of the conjunctiva, nasal itch, and soreness or ulceration of the nasal septum. Certain forms of hexavalent chromium have been found to cause increased respiratory cancer among workers.

Trivalent chromium compounds (chromic oxide) are generally considered to be of lower toxicity, although dermatitis may occur as a result of direct handling.

- ☐ **Cutting Oils.** Cutting oils may produce a condition known as "cutting oil acne," a specific dermatosis associated with prolonged and repeated direct contact. Other problems associated with continued occupational exposure to cutting fluids include allergic skin sensitization, folliculitis, and squamous cell carcinoma due to the presence of nitrosamines.

- ☒ **Fuel Oil.** See Petroleum Hydrocarbons (PHC)
- ☒ **Gasoline.** See BTEX Compounds, and Tetraethyl and Tetramethyl Lead.
- ☐ **Herbicides.** Some of the commonly used herbicides present a low toxicity to man. However, other herbicides pose more serious problems. Organophosphorus and carbamate herbicides, if inhaled or ingested, can interfere with the functioning of the central nervous system. Many herbicides can be readily absorbed through the skin to cause systemic effects. In addition to being absorbed through the skin, many herbicides, upon contact with the skin, may cause discoloring, skin irritation, or dermatitis. Contaminants of commercial preparations of chlorinated phenoxy herbicides such as 2,4,5-T include 2,3,7,8-tetrachlorodibenzo-p-dioxin (dioxin). Dioxin is a known mutagen and a suspect carcinogen.
- ☐ **Hydrogen Sulfide (H₂S).** H₂S, characterized by its "rotten egg" odor, is produced by the decomposition of sulfur-containing organic matter. It is found in many of the same areas where methane is found such as landfills, swamps, sewers, and sewer treatment facilities. An important characteristic of H₂S is its ability to cause a decrease in one's ability to detect its presence by smell. So although one may no longer be able to smell it, it could still be present in harmful concentrations.

The symptoms of overexposure include headache, dizziness, staggering, and nausea. Severe overexposure can cause respiratory failure, coma, and death. The current OSHA PEL is 10 ppm as an 8-hour time-weighted average (TWA). The ACGIH TLV is the same.
- ☐ **Lead Paint.** The inspection and/or removal, sanding, grinding, etc. of lead-based or lead-containing paints is now strictly regulated by OSHA. States may require individuals who conduct lead paint inspections or collect samples of lead paint to be licensed or certified. Partner employees must determine the applicability of these regulations prior to any activities involving lead paint. For additional health information, see Metal Compounds.
- ☒ **Metal Compounds.** Overexposure to metal compounds has been associated with a variety of local and systemic health hazards, both acute and chronic in nature, with chronic effects being most significant. Direct contact with the dusts of some metal compounds can result in contact or allergic dermatitis. Repeated contact with arsenic compounds may result in hyperpigmentation. Cases of skin cancer due to the trivalent inorganic arsenic compounds have been documented. The moist mucous membranes, particularly the conjunctivae, are most sensitive to the irritating effects of arsenic. Copper particles embedded in the eye result in a pronounced foreign body reaction with a characteristic discoloration of eye tissue.

Inhalation of copper and zinc dusts and fumes above their established PELs may result in flu-like symptoms known as "metal fume fever." Prolonged and repeated inhalation of the dusts of inorganic arsenic compounds above the established PEL may result in weakness, loss of appetite, a sense of heaviness in the stomach, and vomiting. Respiratory problems such as cough, hoarseness, and chest pain usually precede the gastrointestinal problems. Chronic overexposure to the dusts of inorganic arsenic may result in lung cancer.

The early symptoms of lead poisoning are usually nonspecific. Symptoms include sleep disturbances, decreased physical fitness, headache, decreased appetite, and abdominal pains. Chronic overexposure may result in severe colic and severe abdominal cramping. The central nervous system (CNS) may also be adversely effected when lead is either inhaled or ingested in large quantities for extended periods of time. The peripheral nerve is usually affected. "Wrist drop" is peculiar to such CNS damage. Lead has also been characterized as a male and female reproductive toxin as well as a fetotoxin. Exposure to lead (Pb) is regulated by a comprehensive OSHA standard (29 CFR 1910.1025).
- ☐ **Methane.** Methane is an odorless, colorless, tasteless, gas that cannot be detected by an H-Nu/PID. When present in high concentrations in air, methane acts primarily as a simple asphyxiant without other significant physiologic effects. Simple asphyxiants dilute or displace oxygen below that required to maintain blood levels sufficient for normal tissue respiration.

Methane has a LEL of 5 percent and an upper explosive limit (UEL) of 15 percent. The LEL of a substance is the minimum concentration of gas or vapor in air below which the substance will not burn when exposed to a source of ignition. This concentration is expressed in percent by volume. Below this concentration, the mixture is "too lean" to burn or explode. The UEL of a substance is the maximum concentration of gas or vapor in air above which the substance will not burn when exposed to a source of ignition. Above this concentration, the mixture is "too rich" to burn or explode. The explosive range is the range of concentrations between the LEL and UEL where the gas-air mixture will support combustion. For methane this range is 5 to 15 percent.
- ☐ **Pesticides.** Pesticides can be grouped into three major categories: organophosphates, carbamate, and organochlorates. The actual PELs as set by the OSHA vary depending on the specific compound. Organophosphates, including diazinon, malathion and parathion, are quickly absorbed into the body by inhalation, ingestion, and direct skin contact. The symptoms of exposure include headache, fatigue, dizziness, blurred vision, sweating, cramps, nausea, and vomiting. More severe symptoms can include tightness of the chest, muscle spasms, seizures, and unconsciousness. It should also be noted that the malathion and parathion PELs both carry the Skin notation, indicating that these compounds adversely affect or penetrate the skin. OSHA specifies that skin exposure to substances carrying this designation should be prevented or reduced through the use of the appropriate PPE.

Organochlorates such as chlordane, DDT and heptachlor can cause dizziness, nausea, abdominal pain, and vomiting. The more severe symptoms include epileptic-like seizures, rapid heartbeat, coma, and death. These compounds also carry the OSHA Skin notation. The symptoms of exposure to carbamate such carbaryl (also known as sevin) is similar to those described for the organophosphates. However, the OSHA exposure limit for carbaryl does not carry the Skin notation.

- ☒ **Petroleum Hydrocarbons (PHCs).** Petroleum hydrocarbons such as fuel oil are generally considered to be of low toxicity. Recommended airborne exposure limits have not been established for these vapors. However, inhalation of low concentrations of the vapor may cause mucous membrane irritation. Inhalation of high concentrations of the vapor may cause pulmonary edema. Repeated or prolonged direct skin contact with the oil may produce skin irritation as a result of defatting. Protective measures, such as the wearing of chemically resistant gloves, to minimize contact are addressed elsewhere in this plan. Because of the relatively low vapor pressures associated with PHCs, an inhalation hazard in the outdoor environment is not likely.

- ☐ **Polychlorinated Biphenyls (PCBs).** Prolonged skin contact with PCBs may cause the formation of comedones, sebaceous cysts, and/or pustules (a condition known as chloracne). PCBs are considered to be suspect carcinogens and may also cause reproductive damage.

The OSHA PELs for PCBs are as follows:

<i>Compound</i>	<i>PEL (8-hour TWA)</i>
Chlorodiphenyl (42% Chlorine)	1 mg/m ³ -Skin
Chlorodiphenyl (54% Chlorine)	0.5 mg/m ³ -Skin

It should be noted that PCBs have extremely low vapor pressures (0.001 millimeters of mercury (mm Hg) at 42% Chlorine and 0.00008 mm Hg at 54% Chlorine). This makes it unlikely that any significant vapor concentration (i.e., exposures above the OSHA PEL) will be created in the ambient environment. This minimizes the potential for any health hazards to arise due to inhalation unless the source is heated or generates an airborne mist. If generated, vapor or mists above the PEL may cause irritation of the eyes, nose, and throat. The exposure limits noted above are considered low enough to prevent systemic effects, but it is not known if these levels will prevent local effects. It should also be noted that both PELs carry the Skin notation, indicating that these compounds adversely affect or penetrate the skin. OSHA specifies that skin exposure to substances carrying this designation be prevented or reduced through the use of the appropriate PPE.

- ☐ **Polycyclic Aromatic Hydrocarbons (PAHs).** Due to the relatively low vapor pressure of PAH compounds, vapor hazards at ambient temperatures are not expected to occur. However, if site conditions are dry, the generation of contaminated dusts may pose a potential inhalation hazard. Therefore, dust levels should be controlled with wetting, if necessary. Repeated contact with certain PAH compounds has been associated with the development of skin cancer. Contact of PAH compounds with the skin may cause photosensitization of the skin, producing skin burns after subsequent exposure to ultraviolet radiation. Protective measures, such as the wearing of chemically resistant gloves, are appropriate when handling PAH-contaminated materials.

- ☐ **Tetraethyl and Tetramethyl Lead.** Both compounds are used as anti-knock ingredients in gasoline. The inhalation of tetraethyl lead dusts may result in irritation of the respiratory tract. This dust, when in contact with moist skin or eye membranes, may cause itching, burning, and transient redness.

The direct absorption of a sufficient quantity of tetraethyl lead, whether briefly at a high rate, or for prolonged periods at a low rate, may cause acute intoxication of the central nervous system. Mild degrees of intoxication may cause headache, anxiety, insomnia, nervous excitation, and minor gastrointestinal disturbances.

- ☒ **Volatile Organic Compounds (VOCs).** See BTEX compounds and Chlorinated Organic Compounds.

- ☒ **Waste Oil.** See Petroleum Hydrocarbons (PHCs) and Cutting Oil.

Hazard Assessment: Biological Hazards and Related Concerns

- ☒ **Insects.** Insects represent significant sources (vectors) of disease transmission. Therefore, precautions to avoid or minimize potential contact should be considered prior to all field activities. Disease or harmful effects can be transmitted through bites, stings, direct contact with insects, or ingestion of foods contaminated by certain insects. Examples of diseases transmitted by insect bites include encephalitis and malaria from contaminated mosquitoes and Lyme disease and spotted fever from contaminated ticks. Stinging insects, such as bees and wasps, are prevalent throughout the country, particularly during the warmer months. The stings of these insects can be painful and cause serious allergic reactions to some individuals.

- ☐ **Lyme Disease.** Lyme disease is an infection caused by the bite of certain ticks, primarily deer, dog and wood ticks. The symptoms of Lyme disease usually start out as a skin rash then progress to more serious symptoms. The more serious symptoms can include lesions, headaches, arthritis, and permanent damage to the neurological system. If detected early, the disease can be treated successfully with antibiotics. The following steps are recommended for prevention of Lyme disease and other diseases transmitted by ticks: a) Beware of tall grass, bushes, woods, and other areas where ticks may live; b) Wear good shoes, long pants tucked into socks, a shirt with a snug collar, good cuffs around the wrists, and tails tucked into the pants. Insect/tick repellents may also be useful; c) Carefully monitor for the presence of ticks. Carefully inspect clothes and skin when undressing. If a tick is attached to the skin, it should be removed with fine-tipped tweezers. You should be alert for early symptoms over the next month or so. If you suspect that you have been bitten by a tick, you should contact a physician for medical advice.

- ☐ **Medical Wastes and Bloodborne Diseases.** Any field activity where exposure to medical wastes or other sources of bloodborne pathogens can be reasonably anticipated must be conducted in accordance with the OSHA (29 CFR 1910.1030) Bloodborne Pathogens standard. According to the OSHA definition, Bloodborne Pathogens mean pathogenic microorganisms that are present in human blood and can cause

disease in humans. These pathogens include, but are not limited to, hepatitis B virus (HBV) and human immunodeficiency virus (HIV). Wherever there is a potential for employee skin, eye, mucous membrane, or parenteral (skin or membrane piercing) contact with blood or other potentially infectious sources, employers must develop a Written Exposure Control Plan.

- ☐ **Poisonous Plants.** The possible presence of poisonous plants should be anticipated for field activities in wooded or heavily vegetated areas. Poison ivy is a climbing plant with alternate green to red leaves (arranged in threes) and white berries. Poison oak is similar to poison ivy and sumac, but its leaves are oak-like in form. The leaves of these poisonous plants produce irritating oil that causes an intensely itching skin rash and characteristic blister-like lesions. Contact with these plants should be avoided.
- ☐ **Rats, Snakes and Other Vermin.** Certain animals, particularly those that feed on garbage and other wastes, can represent significant sources (vectors) of disease transmission. Therefore, precautions to avoid or minimize potential contact with (biting) animals (such as rats) or animal waste (such as pigeon droppings) should be considered prior to all field activities. Rats, snakes, and other wild animals can inflict painful bites. The bites can be poisonous (as in the case of some snakes) or disease causing (as in the case of rabid animals). Avoidance of these animals is the best protection.
- ☐ **Waste Water and Sewage.** Sewage and waste water contaminated with raw, untreated sewage can represent significant sources of bacterial, viral, or fungal contamination. Adverse effects due to contact can range from mild skin reactions or rashes to life threatening diseases. Diseases are easily transmitted by accidental ingestion or through skin contact, particularly if the skin is broken. Avoidance of direct contact and good personal hygiene are the best protection from these hazards.

SITE INSPECTION LOG/HASP SIGNATURE PAGE

PROJECT NAME: Whittram Fontana	LOCATION: 14253, 14315, and 14339 Whittram Avenue, Fontana, CA 92335
PROJECT NUMBER: SM19-259094.3	DATE: November, 2019
PROJECT MANAGER: Suzi Rosen	COMPLETED BY: David Horrell
SITE DESCRIPTION AND NATURE OF WORK: Advance a total of 32 soil borings by direct-push method (8 each around the previous areas of exceedance – borings SB-2, SV-6, SV-8, SV-15) and collect soil samples at 1, 5, 10, 15, and 25 feet bgs. Soil vapor probes will be installed in 24 boring locations (all except the around SB-2) at 5, 15, and 25 feet bgs. Soil samples and soil vapor samples will be collected and analyzed for VOCs in accordance with EPA Method 8260B.	

HAZARD COMMUNICATION

- ☐ Chemical hazards identified
- ☐ All containers properly labeled
- ☐ MSDS/workplace notebook on-site
- ☐ Site safety briefing completed and documented

ACCIDENTS/EMERGENCY INFO

- ☐ First aid personnel identified
- ☐ Hospital location identified
- ☐ Police/fire/ambulance phone numbers available
- ☐ Fire extinguisher present

STORAGE

- ☐ Tools/drill equipment/supplies safely stacked to prevent rolling or collapse
- ☐ Work areas and passage ways kept clear

UNDERGROUND HAZARDS

- ☐ All underground hazards identified and communicated to workers on-site
- ☐ Utility/USA clearance confirmed
- ☐ Clearance dates: _____
- ☐ Clearance ID#: _____

OVERHEAD HAZARDS

- ☐ 15-foot minimum clearance maintained
- ☐ All sources of falling objects/swinging loads/rotating equipment identified
- ☐ Barriers or other methods in place to prevent injury due to overhead hazards

EXCAVATIONS and TRENCHES

- ☐ All personnel and storage at least 2 feet from top edge of excavation
- ☐ Ladder in place
- ☐ Guarding/barriers in place

VEHICULAR TRAFFIC

- ☐ All vehicular traffic routes which could impact worker safety identified and communicated
- ☐ Barriers or other methods established to prevent injury from moving vehicles

PEDESTRIAN TRAFFIC/SITE CONTROL

- ☐ All walkways which could be impacted by site activities identified and communicated
- ☐ Barriers or other methods established to prevent pedestrian injury from site activities

AIR MONITORING

- ☐ PID on-site for air monitoring of work breathing space
- ☐ PID calibrated daily and recorded in log book
- ☐ Operational action levels communicated and PPE present for use, if required

COMMENTS/OTHER HAZARDS

x = OK NA = Not Applicable

Signing below indicates that the individual understands the hazards involved with the project and the necessary procedures in the event of an emergency.

Name	Signature	Company	Date

Additional Signature Page

Signing below indicates that the individual understands the hazards involved with the project and the necessary procedures in the event of an emergency.

Name

Signature

Company

Date

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

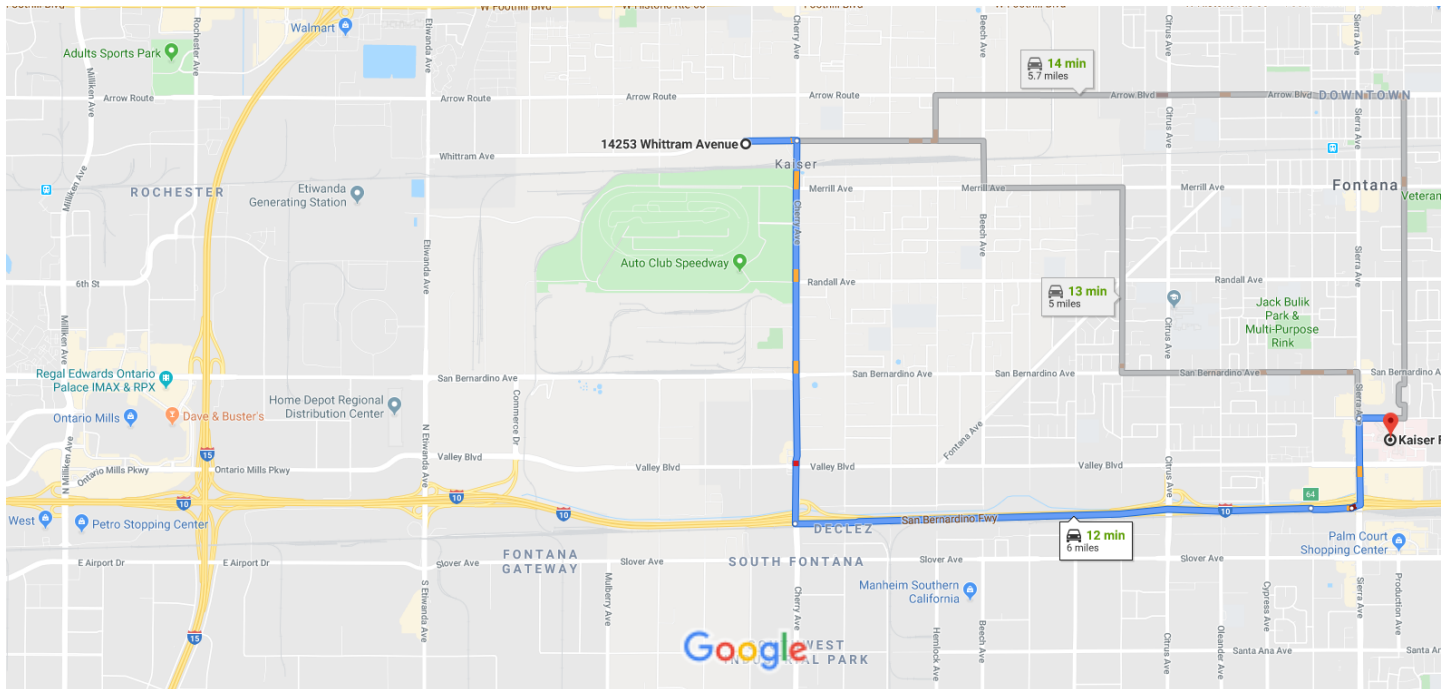
APPENDIX A

HOSPITAL EMERGENCY ROOM MAP & DIRECTIONS



14253 Whittram Avenue, Fontana, CA to Kaiser
Fontana

Drive 6.0 miles, 12 min



Map data ©2019 2000 ft



via Cherry Ave and I-10 E
Fastest route, the usual traffic

12 min
6.0 miles



via Whittram Ave and San Bernardino
Ave

13 min
5.0 miles



via Arrow Blvd and Mango Ave

14 min
5.7 miles

Explore Kaiser Fontana



Restaurants



Hotels



Gas stations



Parking Lots



More

APPENDIX B

MATERIAL SAFETY DATA SHEETS

REFERENCE DATA SHEET ON COMMON CHLORINATED SOLVENTS

By [Richard Gullickson, CIH](#)

POTENTIAL PROBLEM AREAS AND USES

- **Dry cleaning operations**
- Fluorocarbon manufacture
- Solvents for fats, oils, waxes, resins
- Fire extinguishers
- Organic synthesis
- Polymer manufacture
- Heat exchange medium
- Chemical intermediate
- Extraction of caffeine
- Vapor degreasing
- Parts cleaning
- Engine cleaner
- Degreasing agent
- Cleaning printed circuit boards
- Adhesives solvent
- Aerosol propellant
- Foam plastic blowing agents
- Paint removers

PHYSICAL DATA

The chlorinated organic solvents discussed in this data sheet are all colorless liquids at room temperature. They have vapor densities ranging from 2.9 to 5.8 (air = 1). These vapor densities, however, are not usually reached at normal room temperatures. For example, perchloroethylene has a vapor pressure of 19 mm at 77 °F; therefore, the highest concentration it can be in air at that temperature is approximately 2.5% by volume, or 25,000 parts per million. Solvents with higher vapor pressures (lower boiling points) would have higher maximum concentrations. Most of these compounds have odors described as ethereal, sweetish, pleasant, or resembling chloroform. Odor detection limits for most of these compounds are higher than the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs). More than half of them, those containing 80% or more chlorine, do not have flash points. Some of those with no normal flash point may have upper and lower explosive limits at elevated temperatures.

IMPLICATIONS

The odor of most of these compounds cannot be relied upon to determine if overexposure occurs, and chemical cartridge respirators are not acceptable because the worker is unable to determine if the cartridge is exhausted at concentrations higher than the Permissible Exposure Limit. Although these vapors may be denser than air, they do not necessarily become more concentrated in depressions, since air movement, evaporative cooling or other thermal conditions may cause them to exhibit other behaviors.

HEALTH EFFECT DATA

Most of these compounds can affect the central nervous system, liver, and kidneys.

Most also will defat the skin causing dermatitis, and are irritating to the skin, eyes, and mucous membranes. Some can be absorbed through intact skin, and several are suspected or known to cause cancers. Several can cause rapid and erratic heartbeats. A summary of some of the properties is shown in Table I.

IMPLICATIONS

Many of these solvents were formerly in widespread use because of their excellent solvent power and lack of flammability. Health effects information developed in the last few years have caused many of them to be replaced by less toxic materials. Two of them are also suspected of causing damage to the upper atmosphere ozone layer and will be phased out for that reason.

TABLE 1 - SELECTED PROPERTIES

Compound	CAS Number	Liquid Density	Vapor Density	Flash Point, °F	ppm Odor Threshold	PEL ppm	STEL ppm
Perchloroethylene (Tetrachloroethylene)	127-18-4	1.6	5.8	NA ⁽¹⁾	47	25	-
1,1,2,2-Tetrachloroethane	79-34-5	1.6	5.8	NA ⁽¹⁾	72	1, S ⁽²⁾	-
1,1,2-Trichloroethane	79-00-5	1.4	4.6	NA ⁽¹⁾	⁽³⁾	10, S	-
Carbon tetrachloride ⁽⁴⁾	56-23-5	1.6	5.3	NA ⁽¹⁾	250	2	-
Chloroform	67-66-3	1.5	4.1	NA ⁽¹⁾	192	2	-
Methylene chloride	75-09-2	1.3	2.9	NA ⁽¹⁾	160	500 ⁽⁵⁾	1,000 ⁽⁵⁾
Trichloroethylene	79-01-6	1.5	4.5	NA ⁽¹⁾	82	50	200
Methyl chloroform (1,1,1-Trichloroethane) ⁽⁴⁾	71-55-6	1.3	4.6	NA ⁽¹⁾	390	350	450
1,2,3-Trichloropropane	96-18-4	1.4	5.1	164	⁽³⁾	10	-
Ethylene dichloride	107-06-2	1.2	3.4	56	26	1	2
1,2-Dichloropropane (Propylene dichloride)	78-87-5	1.2	3.9	60	0.5	75	110
1,2-Dichloroethylene	540-59-0	1.3	3.4	37	⁽³⁾	200	-
1,1-Dichloroethane	75-34-3	1.2	3.4	17	445	100	-

- = No Short Term Exposure Limit has been established for this material.

1. Does not normally burn and does not have a reported flash point.
2. S = Skin. This material is reported to be absorbed through intact skin.
3. No reliable odor threshold information was found for this chemical.
4. Production of these chemicals is scheduled to be 100% phased out by January 1, 1996 because of suspected harm to the earth's ozone layer.
5. OSHA has published a proposed rule to reduce the Permissible Exposure Limit for methylene chloride to an 8-hour time-weighted-average of 25 ppm, and a 15

minute Short Term Exposure Limit (STEL) of 125 ppm.

TOXICITY INFORMATION FOR INDIVIDUAL COMPOUNDS

Perchloroethylene is not classified as a carcinogen. It can affect the central nervous system* (CNS), and cause irritation of the skin, eyes, and upper respiratory tract.

**CNS effects (CNS depression) for all of these compounds can include varying degrees of headache, dizziness, sleepiness, or unconsciousness, depending on the degree of exposure and the length of exposure. Very high exposure can cause death.*

1,1,2,2-Tetrachloroethane is considered to be a potential carcinogen by the National Institute for Occupational Safety and Health (NIOSH). It can be absorbed through intact (unbroken) skin. It can cause CNS effects, and can damage the kidney and liver.

1,1,2-Trichloroethane is not listed as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or OSHA. It can be absorbed by intact skin. Causes CNS depression and kidney and liver damage. It is a more potent CNS depressant than chloroform.

Carbon tetrachloride is listed as a suspect carcinogen, but the American Conference of Governmental Industrial Hygienists (ACGIH) is dropping it to a rating of A3, an animal carcinogen at relatively high doses, not a likely human carcinogen; however, liver cancer has been reported. It can be absorbed through intact skin. It causes CNS depression, can damage the kidneys, liver, or lungs, and can cause aplastic anemia. It can cause rapid and irregular heartbeat, which can be fatal. Health effects appear to be greatly increased by alcohol consumption.

Chloroform is a suspect carcinogen. It causes CNS depression, rapid and irregular heartbeat, and liver and kidney damage. It was formerly used in cough medicines, and as an anesthetic.

Methylene chloride is listed by the ACGIH as a potential carcinogen. It causes CNS depression, liver and kidney damage, and can cause elevated blood carboxyhemoglobin (also caused by exposure to carbon monoxide). Contact of the liquid with skin or eyes causes painful irritation and possible burns. It has often been used in paint removers.

Trichloroethylene is considered a suspect carcinogen. It can cause CNS depression, can affect kidneys, liver, and lungs, and can cause rapid and irregular heartbeat that can cause death. Causes skin, eye, and mucous membrane irritation. Toxic effects are increased when combined with alcohol, caffeine, and other drugs. It has been used extensively in vapor degreasers.

Methyl chloroform is not listed as a carcinogen by NIOSH or NTP. It is one of the least toxic of the chlorinated solvents, but can cause death at high concentrations. It can cause CNS depression, rapid and irregular heartbeat, and irritation to the skin, eyes, and respiratory tract.

1,2,3-Trichloropropane is not listed as a suspect carcinogen. It can be absorbed through intact skin. The liquid is highly irritating to the skin and eyes. It can cause CNS depression, and liver and kidney effects. The odor is reported to be unpleasant.

Ethylene dichloride is flammable, and is considered one of the more toxic of these solvents. It is considered a potential carcinogen, although not listed as such by ACGIH or OSHA. It can cause CNS depression, and damage to liver, kidneys, heart, and digestive system. Eye contact with this chemical can cause irritation and serious injury, if not removed promptly.

Propylene dichloride is not listed by ACGIH or OSHA as a potential carcinogen. It can cause CNS depression, and liver or kidney damage, and can cause eye, skin, and mucous membrane irritation. It has a low odor threshold.

1, 2-Dichloroethylene is highly flammable. It is not listed as a suspect carcinogen. It is a CNS depressant, and can irritate skin, eyes, or mucous membranes. It has been used as an anesthetic in humans. It is available in two isomeric forms.

1,1-Dichloroethane is highly flammable. It is not listed as a suspect carcinogen. It is a CNS depressant, but seems to be less likely than other chlorinated solvents to cause liver or kidney damage.

MEASUREMENT OF CHLORINATED SOLVENTS

Short term measurements of most of these solvents can be done with length-of-stain detector tubes, such as Draeger, MSA, or Sensidyne/Gastec, but these tubes are not usually specific for any one compound, and accuracy may be poor. Most, if not all of these materials can be analytically determined using Method 1003, "Hydrocarbons, Halogenated" from the *NIOSH Manual of Analytical Methods, Third Edition*. Collection is on charcoal tubes, using a calibrated sampling pump, and analysis is by gas chromatography.

IMPLICATIONS

Colorimetric detection methods may give false readings due to interfering air contaminants, and may be representative only of the area immediately adjacent to the sampling location.

DOCUMENTATION

There are numerous OSHA, ACGIH, NIOSH, and EPA documents concerning allowable exposure levels, uses, and toxicity of these chemicals. Effects of exposures at various concentrations are well documented in some of these publications for animal

exposures, as well as limited data, when known, concerning human exposures. There are well-documented methods for identifying and measuring concentrations in the workplace. Computer models are available that can calculate potential exposures when data is lacking.

Material Safety Data Sheet

Revision Issued: 3/04/2010 Supercedes: 11/02/2005 First Issued: 6/24/1987

Section I - Chemical Product And Company Identification

Product Name: Perchloroethylene

CAS Number: 127-18-4

HBCC MSDS No. CP05000



HILL BROTHERS *Chemical Co.*

1675 NORTHMAIN STREET • ORANGE, CALIFORNIA 92867-3499
(714) 998-8800 • FAX: (714) 998-6310
<http://hillbrothers.com>

1675 No. Main Street, Orange, California 92867
Telephone No: 714-998-8800 | Outside Calif: 800-821-7234
Chemtrec: 800-424-9300

Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	%
Perchloroethylene	127-18-4	100

See Section VIII for exposure guidelines

Section III - Hazard Identification

Routes of Exposure: Perchloroethylene can affect the body either through ingestion, inhalation, or contact with the eyes and/or skin.

Summary of Acute Health Hazards

Ingestion: May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through the gastrointestinal tract may produce symptoms of central nervous system depression ranging from light-headedness to unconsciousness.

Inhalation: Excessive inhalation may produce symptoms of central nervous system depression, ranging from light-headedness, nausea and vomiting, to unconsciousness and death.

Skin: Mildly irritating to the skin. Skin contact may produce a burning sensation. Prolonged or repeated contact may cause skin to become reddened, rough, and dry due to the removal of natural oils and may result in dermatitis.

Eyes: An irritant to the eyes, causing pain, lacrimation, and general inflammation.

Summary of Chronic Health Hazards: Can cause headache, mental confusion, depression, fatigue, loss of appetite, nausea, vomiting, coughing, loss of sense of balance, and visual disturbances. Prolonged or repeated skin contact may cause dermatitis.

Signs and Symptoms of Exposure: N/A

Effects of Overexposure: N/A

Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing skin disorders, impaired liver function, or impaired renal function might have increased health risks working with perchloroethylene.

Note to Physicians: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

Section IV - First Aid Measures

Ingestion: NEVER give anything by mouth to an unconsciousness person. Have the conscious victim drink 2 glasses of water to dilute. DO NOT INDUCE VOMITING. Keep the airway clear. GET MEDICAL ATTENTION IMMEDIATELY.

Inhalation: Remove the victim to fresh air immediately. If breathing is difficult, administer oxygen; if breathing has stopped, perform artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

Skin: Wash the contaminated skin with plenty of soap and water for at least 15 minutes. If irritation persists after washing, get medical attention.

Eyes: Wash the eyes immediately with large amounts of water for at least 15 minutes, lifting the upper and lower lids. If irritation persists after washing, GET MEDICAL ATTENTION. Contact lenses should not worn with this product.

Section V - Fire Fighting Measures

Flash Point: Not Flammable

Autoignition Temperature: Not Flammable

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: Perchloroethylene is nonflammable and non-explosive under normal conditions of use. At high temperatures PCE decomposes to give off hydrochloric acid as gas plus other toxic and irritating vapors such as phosgene. Vapors are heavier than air and collect in low-lying areas.

Extinguishing Media: Water spray, dry chemical, carbon dioxide, or foam may be used where perchloroethylene is stored.

Special Firefighting Procedures: Storage containers exposed to fire should be kept cool with a water spray in order to prevent pressure build-up. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section VI - Accidental Release Measures

Ventilate the area of the leak or spill. Persons performing clean-up work should wear adequate personal protective equipment and clothing. Keep material out of water sources and sewers. Build dikes to contain flow as necessary. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Flush area with water to remove trace residue, and dispose of the flush solution.

Section VII - Handling and Storage

Do not get in eyes, on skin, or on clothing, and avoid breathing the mist. Keep containers closed, and use with adequate ventilation. Wash thoroughly after handling. Under normal conditions, perchloroethylene may be stored satisfactorily in

galvanized iron, black iron or steel. Aluminum is not generally recommended for storage or handling. Store drums in a cool place (bungs up and closed tightly). Ventilation should be provided at the floor level.

Section VIII - Exposure Controls/Personal Protection

Exposure Controls

Engineering Controls: This product should be confined within closed equipment, in which case general (mechanical) room ventilation should be suitable. Special, local ventilation is needed at points where vapors are expected to be vented to the workplace air. Have eye baths and safety showers immediately available where eye contact and skin contact can occur.

Work/Hygienic Practices: All employees who handle perchloroethylene should wash their hands before eating, smoking, or using the toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Exposure Guideline(s): Perchloroethylene: CAS Number 127-18-4, Exposure Limits (TWAs) in Air: ACGIH TLV: 25 ppm; OSHA PEL: 100 ppm; STEL: 100 ppm

Personal Protection

Personal Protection Equipment (PPE): Use only a MSHA/NIOSH-approved respirator to prevent overexposure if vapor levels may or do exceed the exposure limits. See SUPPLEMENTAL INFORMATION.

Protective Clothing: Wear chemical goggles if there is the likelihood of contact with the eyes. Wear appropriate impervious gloves and protective clothing to prevent skin contact. Wear face shields and impervious aprons when splashing is likely. Remove contaminated clothing promptly and launder before reuse.

Eye Protection: Employees should be provided with and required to use splash-proof safety goggles where there is any possibility of Perchloroethylene contacting the eyes.

Section IX - Physical and Chemical Properties

Physical State: Liquid

pH: N/A

Melting Point/Range: -19°C (-2.2°F) **Boiling Point/Range:** 121°C (250°F)

Appearance/Color/Odor: Clear, colorless liquid with an odor like chloroform or ether

Solubility in Water: 0.015 g/100 g H₂O

Vapor Pressure (mmHg): 18 @ 25°C (77°F)

Specific Gravity (Water=1): 1.62

Molecular Weight: 165.85

Vapor Density (Air=1): 5.7

% Volatiles: 100

Evaporation Rate (BuAc=1): 0.33 (trichloroethylene = 1)

How to detect this compound: In air, adsorption on charcoal, workup with CS₂, analysis by gas chromatography. In water, inert gas purge followed by gas chromatography with halide specific detection (EPA Method 601) or gas chromatography plus mass spectrometry (EPA Method 624).

Section X - Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Slowly decomposed by light. Deteriorates rapidly in warm, moist climates.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: High Temperatures, and moisture.

Materials to Avoid: Pure oxygen, strong oxidizers, alkali metals, open flames, and electrical arcs. PCE reacts violently with concentrated nitric acid to give carbon dioxide as a primary product. Zinc, barium, lithium. Slowly corrodes aluminum, iron and zinc.

Hazardous Decomposition Products: At high temperatures, PCE decomposes to give off hydrogen chloride gas, trichloroacetic acid and small quantities of other toxic and irritating vapors such as phosgene. Carbon dioxide and carbon monoxide may form when heated to decomposition.

Section XI - Toxicological Information

Oral rat LD50: 2629 mg/kg; inhalation rat LC50: 4100 ppm/6H

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

Dispose of in accordance with applicable local, county, state and federal regulations.

Section XIV - Transport Information

DOT Proper Shipping Name: Tetrachloroethylene

DOT Hazard Class/ I.D. No.: 6.1, UN1897, III

Section XV - Regulatory Information

CALIFORNIA PROPOSITION 65: WARNING

This product contains Tetrachloroethylene (Perchloroethylene), a substance known to the State of California to cause cancer.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Hazardous Substance: Perchloroethylene, CAS # 127-18-4
100 Pounds (45.4 Kilograms) Reportable Quantity (RQ)

RCRA (Resource Conservation & Recovery Act) Hazardous Waste Code:
Perchloroethylene, CAS # 127-18-4, U210

Section 313 Supplier Notification: Perchloroethylene, CAS # 127-18-4, % by Weight: 100%

NFPA (National Fire Protection Association) Rating:

Health - 2; Flammability - 0; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: National Toxicology Program (NTP): Yes

International Agency for Research on Cancer (IARC) Monograph: Yes

Occupational Safety & Health Administration (OSHA) Regulated: Yes

Section XVI - Other Information

Synonyms/Common Names: Tetrachloroethylene, Perclene, Carbon Dichloride, PCE

Chemical Family/Type: N/A

Sections changed since last revision: II, IV, V, VI, VIII, IX, X, XI

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.

MSDS Number: **T4940** * * * * * Effective Date: **09/16/09** * * * * * Supersedes: **12/06/07**

MSDS Material Safety Data Sheet		24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865		National Response in Canada CANUTEC: 613-996-6666
Mallinckrodt CHEMICALS		Outside U.S. and Canada Chemtrec: 703-527-3887
J.T. Baker		NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.
All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.		

TRICHLOROETHYLENE

1. Product Identification

Synonyms: Trichloroethene; TCE; acetylene trichloride; Ethinyl trichloride

CAS No.: 79-01-6

Molecular Weight: 131.39

Chemical Formula: C₂HCl₃

Product Codes:

J.T. Baker: 5376, 9454, 9458, 9464, 9473

Mallinckrodt: 8600, 8633

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Trichloroethylene	79-01-6	100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS HEART, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES SEVERE SKIN IRRITATION. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Poison)

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

Potential Health Effects

Inhalation:

Vapors can irritate the respiratory tract. Causes depression of the central nervous system with symptoms of visual disturbances and mental confusion, incoordination, headache, nausea, euphoria, and dizziness. Inhalation of high concentrations could cause unconsciousness, heart effects, liver effects, kidney effects, and death.

Ingestion:

Cases irritation to gastrointestinal tract. May also cause effects similar to inhalation. May cause coughing, abdominal pain, diarrhea, dizziness, pulmonary edema, unconsciousness. Kidney failure can result in severe cases. Estimated fatal dose is 3-5 ml/kg.

Skin Contact:

Cause irritation, redness and pain. Can cause blistering. Continued skin contact has a defatting action and can produce rough, dry, red skin resulting in secondary infection.

Eye Contact:

Vapors may cause severe irritation with redness and pain. Splashes may cause eye damage.

Chronic Exposure:

Chronic exposures may cause liver, kidney, central nervous system, and peripheral nervous system effects. Workers chronically exposed may exhibit central nervous system depression, intolerance to alcohol, and increased cardiac output. This material is linked to mutagenic effects in humans. This material is also a suspect carcinogen.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, cardiovascular disorders, impaired liver or kidney or respiratory function, or central or peripheral nervous system disorders may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

5. Fire Fighting Measures

Fire:

Autoignition temperature: 420C (788F)

Flammable limits in air % by volume:

lcl: 8; ucl: 12.5

Explosion:

A strong ignition source, e. g., a welding torch, can produce ignition. Sealed containers may rupture when heated.

Fire Extinguishing Media:

Use water spray to keep fire exposed containers cool. If substance does ignite, use CO₂, dry chemical or foam.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and hydrogen chloride gases. Structural firefighters' clothing provides only limited protection to the combustion products of this material.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Trichloroethylene:

-OSHA Permissible Exposure Limit (PEL):

100 ppm (TWA), 200 ppm (Ceiling),

300 ppm/5min/2hr (Max)

-ACGIH Threshold Limit Value (TLV):

10 ppm (TWA) 25 ppm (STEL); A2 Suspected Human Carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134). This substance has poor warning properties. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene is a recommended material for personal protective equipment.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid.

Odor:

Chloroform-like odor.

Solubility:

Practically insoluble in water. Readily miscible in organic solvents.

Specific Gravity:

1.47 @ 20C/4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

87C (189F)

Melting Point:

-73C (-99F)

Vapor Density (Air=1):

4.5

Vapor Pressure (mm Hg):

57.8 @ 20C (68F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Will slowly decompose to hydrochloric acid when exposed to light and moisture.

Hazardous Decomposition Products:

May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong caustics and alkalis, strong oxidizers, chemically active metals, such as barium, lithium, sodium, magnesium, titanium and beryllium, liquid oxygen.

Conditions to Avoid:

Heat, flame, ignition sources, light, moisture, incompatibles

11. Toxicological Information

Toxicological Data:

Trichloroethylene: Oral rat LD50: 5650 mg/kg; investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:

This material has been linked to mutagenic effects in humans.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Trichloroethylene (79-01-6)	No	Yes	2A

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released to water, this material is expected to quickly evaporate. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Environmental Toxicity:

The LC50/96-hour values for fish are between 10 and 100 mg/l. This material is expected to be slightly toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: TRICHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1710
Packing Group: III
Information reported for product/size: 4L

International (Water, I.M.O.)

Proper Shipping Name: TRICHLOROETHYLENE
Hazard Class: 6.1
UN/NA: UN1710
Packing Group: III
Information reported for product/size: 4L

15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
Ingredient                                     TSCA  EC   Japan  Australia
-----
Trichloroethylene (79-01-6)                  Yes  Yes  Yes    Yes

-----\Chemical Inventory Status - Part 2\-----
Ingredient                                     --Canada--
Korea  DSL  NDSL  Phil.
-----
Trichloroethylene (79-01-6)                  Yes  Yes  No     Yes

-----\Federal, State & International Regulations - Part 1\-----
-SARA 302-  -SARA 313-
Ingredient  RQ   TPQ   List  Chemical Catg.
-----
Trichloroethylene (79-01-6)                  No   No     Yes    No

-----\Federal, State & International Regulations - Part 2\-----
-RCRA-  -TSCA-
Ingredient  CERCLA  261.33  8(d)
-----
Trichloroethylene (79-01-6)                  100     U228    No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No
SARA 311/312: Acute: Yes    Chronic: Yes  Fire: No  Pressure: No
Reactivity: No              (Pure / Liquid)
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WARNING:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Australian Hazchem Code: None allocated.

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED. AFFECTS HEART, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES SEVERE SKIN IRRITATION. CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.

Label Precautions:

Do not get in eyes, on skin, or on clothing.
Do not breathe vapor.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep away from heat and flame.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician. Note to physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY,

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Prepared by: Environmental Health & Safety
Phone Number: (314) 654-1600 (U.S.A.)

APG**Analytical Products Group, Inc.**2730 Washington Blvd., Belpre, OH 45714
740-423-4200 800-272-4442 Fax 740-423-5588**Material Safety Data Sheet**

Date prepared on: 9/18/95

Last revised on: 1/20/08

Page 1

Section I: Product Identification

CATALOG NUMBER: 2600,4230,4232,4233	PRODUCT NAME: BTEX
-------------------------------------	--------------------

Section II - Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*
Methanol	67-56-1	200ppm	>90%
A table of the compounds possible in this purgeable aromatic analytical standard is attached. Data included in the table are formulas, CAS numbers, oral LD50 values for rats and PEL/TWA values if available. Total concentration of purgeable aromatic compounds in the standard is less than 2% with individual compound concentrations of less than 0.1%.			

Non-Hazardous Ingredients/Identity Information

Chemical Name	CAS Reg. No.	OSHA PEL (TWA)	% Composition*

* Components are calculated on a weight/weight basis.

Section III - Physical/Chemical Characteristics of Hazardous Ingredients

BOILING POINT: 65 C (149 F)		SPECIFIC GRAVITY: (water=1) 0.79	
VAPOR PRESSURE: 97 mmHg @ 20 C	SOLUBILITY IN WATER: Complete	APPEARANCE/ODOR: Clear, colorless liquid with pungent odor (methanol).	

Section IV - Fire and Explosion Hazard Data

FLASH POINT (Method used): 12 C (54 F) Closed cup	AUTO IGNITION TEMPERATURE: 463 C (867 F)	FLAMMABLE LIMITS	LEL 6%	UEL 36%
EXTINGUISHING MEDIA: Use extinguisher media appropriate for surrounding fire since sample size is small. Alcohol foam, dry chemical or carbon dioxide (water may be ineffective in most laboratory situations.)				
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire exposed containers cool.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire. Burns with a clear, almost invisible flame.				

Section V - Reactivity Data

STABILITY:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: Heat, flame and other sources of ignition.
INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents, strong acids, zinc, aluminum and magnesium.			
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and formaldehyde.			
HAZARDOUS POLYMERIZATION:	May Occur <input type="checkbox"/>	Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid: N/A

Section VI - Health Hazard Data

ROUTES OF ENTRY	Inhalation? YES	Skin? YES	Ingestion? YES
HEALTH HAZARDS (Acute and Chronic): ACUTE: Yes, see chronic symptoms. CHRONIC: Yes, methanol ingestion may be fatal or cause blindness, headache, nausea, vomiting, dizziness, gastrointestinal irritation, central nervous system depression or hearing loss.			
COMPONENTS LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS: No, not listed in IARC monograph.			
SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of skin, eyes, nose, throat and headache. Prolonged contact may cause dermatitis. Exposure effects may differ between individuals			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Eye disorders, skin disorders, liver and kidney disorders			
EMERGENCY AND FIRST AID PROCEDURES: Seek medical assistance for treatment, observation and support if necessary. EYE CONTACT: Flush with water, obtain medical attention. SKIN CONTACT: Wash with soap and water, use protective creams. INHALATION: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and obtain medical attention. INGESTION: If conscious, give water and baking soda and induce vomiting. Obtain medical assistance immediately.			

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: (Sample) shut off ignition sources. No flares, smoking or flames in area. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water.
WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state and local environmental regulations. Excess sample should be placed in a proper waste solvent container.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container tightly closed, store in a cool, dry, well ventilated, flammable liquid storage area.
OTHER PRECAUTIONS* Do not heat or evaporate sample to dryness.

Section VIII - Control Measures

RESPIRATORY PROTECTION (Please specify): Required if airborne concentration exceeds TWA of 200 ppm.	
VENTILATION: Local exhaust. (general or local exhausts meet TLV regulations).	
PROTECTIVE GLOVES: Rubber gloves recommended.	EYE PROTECTION: Safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT: N/A	
EMERGENCY WASH FACILITIES: Maintain eye wash and quick drench showers in work area	

The information stated in this Material Safety Data Sheet (MSDS) is believed to be correct on the date of publication and must not be considered all conclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. Persons not specifically and properly trained should not handle this chemical or its container. This MSDS is provided without any warranty expressed or implied, including merchantability or fitness for any particular purpose.

This product is furnished for laboratory use ONLY! Our standards may not be used as drugs, cosmetics, agricultural or pesticidal products, food additives or as house hold chemicals.

* Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Environmental Protection Agency, and others) may have specific regulations concerning the transportation, handling, storage or use of this product which may not be contained herein. The customer or user of this product should be familiar with these regulations.

Hazardous components of the Volatiles Standard

<i>CHEMICAL</i>	<i>CAS #</i>	<i>% by WEIGHT</i>	<i>LD50</i>
Ethylbenzene	100-41-4	<0.2%	3500 mg/kg
Benzene	71-43-2	<0.2%	4894 mg/kg
Toluene	108-88-3	<0.2%	7000 mg/kg
m-Xylene	108-38-3	<0.2%	5 gm/kg
p-Xylene	106-42-3	<0.2%	5 gm/kg
o-Xylene	95-47-6	<0.2%	1364 mg/kg

AMERADA HESS CORPORATION

MATERIAL SAFETY DATA SHEET

Gasoline, All Grades

MSDS No. 9950

EMERGENCY OVERVIEW

DANGER!

**EXTREMELY FLAMMABLE - EYE AND MUCOUS MEMBRANE IRRITANT
- EFFECTS CENTRAL NERVOUS SYSTEM - HARMFUL OR FATAL IF
SWALLOWED - ASPIRATION HAZARD**



NFPA 704 (Section 16)

High fire hazard. Keep away from heat, spark, open flame, and other ignition sources.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs). Contact may cause eye, skin and mucous membrane irritation. Harmful if absorbed through the skin. Avoid prolonged breathing of vapors or mists. Inhalation may cause irritation, anesthetic effects (dizziness, nausea, headache, intoxication), and respiratory system effects.

Long-term exposure may cause effects to specific organs, such as to the liver, kidneys, blood, nervous system, and skin. Contains benzene, which can cause blood disease, including anemia and leukemia.

1. CHEMICAL PRODUCT and COMPANY INFORMATION (rev. Jan-04)

Amerada Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs):

COMPANY CONTACT (business hours):

MSDS Internet Website

CHEMTREC (800)424-9300

Corporate Safety (732)750-6000

www.hess.com/about/envIRON.html

SYNONYMS: Hess Conventional (Oxygenated and Non-oxygenated) Gasoline; Reformulated Gasoline (RFG); Reformulated Gasoline Blendstock for Oxygenate Blending (RBOB); Unleaded Motor or Automotive Gasoline

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and INFORMATION ON INGREDIENTS * (rev. Jan-04)

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Gasoline (86290-81-5)	100
Benzene (71-43-2)	0.1 - 4.9 (0.1 - 1.3 reformulated gasoline)
n-Butane (106-97-8)	< 10
Ethyl Alcohol (Ethanol) (64-17-5)	0 - 10
Ethyl benzene (100-41-4)	< 3
n-Hexane (110-54-3)	0.5 to 4
Methyl-tertiary butyl ether (MTBE) (1634-04-4)	0 to 15.0
Tertiary-amyl methyl ether (TAME) (994-05-8)	0 to 17.2
Toluene (108-88-3)	1 - 25
1,2,4- Trimethylbenzene (95-63-6)	< 6
Xylene, mixed isomers (1330-20-7)	1 - 15

A complex blend of petroleum-derived normal and branched-chain alkane, cycloalkane, alkene, and aromatic hydrocarbons. May contain antioxidant and multifunctional additives. Non-oxygenated Conventional Gasoline and RBOB do not have oxygenates (Ethanol or MTBE and/or TAME). Oxygenated Conventional and Reformulated Gasoline will have oxygenates for octane enhancement or as legally required.

AMERADAHESSE CORPORATION

MATERIAL SAFETY DATA SHEET

Gasoline, All Grades

MSDS No. 9950

3. HAZARDS IDENTIFICATION (rev. Dec-97)

EYES

Moderate irritant. Contact with liquid or vapor may cause irritation.

SKIN

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.

INGESTION

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY

Contains benzene, a regulated human carcinogen. Benzene has the potential to cause anemia and other blood diseases, including leukemia, after repeated and prolonged exposure. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with systemic toxicity. See also Section 11 - Toxicological Information.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash). Chronic respiratory disease, liver or kidney dysfunction, or pre-existing central nervous system disorders may be aggravated by exposure.

4. FIRST AID MEASURES (rev. Dec-97)

EYES

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION

Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

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MATERIAL SAFETY DATA SHEET

Gasoline, All Grades

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5. FIRE FIGHTING MEASURES (rev. Dec-97)

FLAMMABLE PROPERTIES:

FLASH POINT: -45 °F (-43°C)
AUTOIGNITION TEMPERATURE: highly variable; > 530 °F (>280 °C)
OSHA/NFPA FLAMMABILITY CLASS: 1A (flammable liquid)
LOWER EXPLOSIVE LIMIT (%): 1.4%
UPPER EXPLOSIVE LIMIT (%): 7.6%

FIRE AND EXPLOSION HAZARDS

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO₂, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

During certain times of the year and/or in certain geographical locations, gasoline may contain MTBE and/or TAME. Firefighting foam suitable for polar solvents is recommended for fuel with greater than 10% oxygenate concentration - refer to NFPA 11 "Low Expansion Foam - 1994 Edition."

FIRE FIGHTING INSTRUCTIONS

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES (rev. Dec-97)

ACTIVATE FACILITY SPILL CONTINGENCY or EMERGENCY PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product

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vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

7. HANDLING and STORAGE (rev. Dec-97)

HANDLING PRECAUTIONS

*****USE ONLY AS A MOTOR FUEL*****

*****DO NOT SIPHON BY MOUTH*****

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents.

STORAGE PRECAUTIONS

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION (rev. Jan-04)

EXPOSURE LIMITS

Component (CAS No.)	Source	TWA (ppm)	STEL (ppm)	Exposure Limits	Note
Gasoline (86290-81-5)	ACGIH	300	500	A3	
Benzene (71-43-2)	OSHA	1	5	Carcinogen	
	ACGIH	0.5	2.5	A1, skin	
	USCG	1	5		
n-Butane (106-97-8)	ACGIH	800	--	2003 NOIC: 1000 ppm (TWA) Aliphatic Hydrocarbon Gases Alkane (C1-C4)	
Ethyl Alcohol (ethanol) (64-17-5)	OSHA	1000	--		
	ACGIH	1000	--	A4	
Ethyl benzene (100-41-4)	OSHA	100	--		
	ACGIH	100	125	A3	

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Component (CAS No.)	Source	TWA (ppm)	STEL (ppm)	Exposure Limits	Note
n-Hexane (110-54-3)	OSHA	500	--		
	ACGIH	50	--	skin	
Methyl-tertiary butyl ether [MTBE] (1634-04-4)	ACGIH	50		A3	
Tertiary-amyl methyl ether [TAME] (994-05-8)				None established	
Toluene (108-88-3)	OSHA	200		Ceiling: 300 ppm; Peak: 500 ppm (10 min.)	
	ACGIH	50	--	A4 (skin)	
1,2,4- Trimethylbenzene (95-63-6)	ACGIH	25	--		
Xylene, mixed isomers (1330-20-7)	OSHA	100	--		
	ACGIH	100	150	A4	

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION

Gloves constructed of nitrile or neoprene are recommended. Chemical protective clothing such as that made of of E.I. DuPont Tychem®, products or equivalent is recommended based on degree of exposure.

Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION

A NIOSH-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection and limitations.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES (rev. Jan-04)

APPEARANCE

A translucent, straw-colored or light yellow liquid

ODOR

A strong, characteristic aromatic hydrocarbon odor. Oxygenated gasoline with MTBE and/or TAME may have a sweet, ether-like odor and is detectable at a lower concentration than non-oxygenated gasoline.

ODOR THRESHOLD

	<u>Odor Detection</u>	<u>Odor Recognition</u>
Non-oxygenated gasoline:	0.5 - 0.6 ppm	0.8 - 1.1 ppm
Gasoline with 15% MTBE:	0.2 - 0.3 ppm	0.4 - 0.7 ppm
Gasoline with 15% TAME:	0.1 ppm	0.2 ppm

BASIC PHYSICAL PROPERTIES

BOILING RANGE:	85 to 437 °F (39 to 200 °C)
VAPOR PRESSURE:	6.4 - 15 RVP @ 100 °F (38 °C) (275-475 mm Hg @ 68 °F (20 °C)
VAPOR DENSITY (air = 1):	AP 3 to 4
SPECIFIC GRAVITY (H ₂ O = 1):	0.70 – 0.78
EVAPORATION RATE:	10-11 (n-butyl acetate = 1)
PERCENT VOLATILES:	100 %

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Gasoline, All Grades

MSDS No. 9950

SOLUBILITY (H₂O):

Non-oxygenated gasoline - negligible (< 0.1% @ 77 °F). Gasoline with 15% MTBE - slight (0.1 - 3% @ 77 °F); ethanol is readily soluble in water

10. STABILITY and REACTIVITY (rev. Dec-94)

STABILITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources

INCOMPATIBLE MATERIALS

Keep away from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

11. TOXICOLOGICAL PROPERTIES (rev. Dec-97)

ACUTE TOXICITY

Acute Dermal LD50 (rabbits): > 5 ml/kg

Acute Oral LD50 (rat): 18.75 ml/kg

Primary dermal irritation (rabbits): slightly irritating

Draize eye irritation (rabbits): non-irritating

Guinea pig sensitization: negative

CHRONIC EFFECTS AND CARCINOGENICITY

Carcinogenicity: OSHA: NO

IARC: YES - 2B

NTP: NO

ACGIH: YES (A3)

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

This product may contain methyl tertiary butyl ether (MTBE): animal and human health effects studies indicate that MTBE may cause eye, skin, and respiratory tract irritation, central nervous system depression and neurotoxicity. MTBE is classified as an animal carcinogen (A3) by the ACGIH.

12. ECOLOGICAL INFORMATION (rev. Jan-04)

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations. If released, oxygenates such as ethers and alcohols will be expected to exhibit fairly high mobility in soil, and therefore may leach into groundwater. The API (www.api.org) provides a number of useful references addressing petroleum and oxygenate contamination of groundwater.

13. DISPOSAL CONSIDERATIONS (rev. Dec-97)

Consult federal, state and local waste regulations to determine appropriate disposal options.

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14. TRANSPORTATION INFORMATION (rev. Jan-04)

DOT PROPER SHIPPING NAME: Gasoline
 DOT HAZARD CLASS and PACKING GROUP: 3, PG II
 DOT IDENTIFICATION NUMBER: UN 1203
 DOT SHIPPING LABEL: FLAMMABLE LIQUID

PLACARD:



15. REGULATORY INFORMATION (rev. Jan-04)

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state, or local regulations; consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow-up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

<u>ACUTE HEALTH</u>	<u>CHRONIC HEALTH</u>	<u>FIRE</u>	<u>SUDDEN RELEASE OF PRESSURE</u>	<u>REACTIVE</u>
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

INGREDIENT NAME (CAS NUMBER)	CONCENTRATION WT. PERCENT
Benzene (71-43-2)	0.1 to 4.9 (0.1 to 1.3 for reformulated gasoline)
Ethyl benzene (100-41-4)	< 3
n-Hexane (110-54-3)	0.5 to 4
Methyl-tertiary butyl ether (MTBE) (1634-04-4)	0 to 15.0
Toluene (108-88-3)	1 to 15
1,2,4- Trimethylbenzene (95-63-6)	< 6
Xylene, mixed isomers (1330-20-7)	1 to 15

US EPA guidance documents (www.epa.gov/tri) for reporting Persistent Bioaccumulating Toxics (PBTs) indicate this product may contain the following deminimis levels of toxic chemicals subject to Section 313 reporting:

INGREDIENT NAME (CAS NUMBER)	CONCENTRATION - Parts per million (ppm) by weight
Polycyclic aromatic compounds (PACs)	17
Benzo (g,h,i) perylene (191-24-2)	2.55
Lead (7439-92-1)	0.079

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CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 2 (Flammable Liquid)

Class D, Division 2A (Very toxic by other means) and Class D, Division 2B (Toxic by other means)

16. OTHER INFORMATION (rev. Jan-04)

NFPA® HAZARD RATING

HEALTH:	1	Slight
FIRE:	3	Serious
REACTIVITY:	0	Minimal

HMIS® HAZARD RATING

HEALTH:	1 *	Slight
FIRE:	3	Serious
REACTIVITY:	0	Minimal

* CHRONIC

SUPERSEDES MSDS DATED: 12/30/97

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
 N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
AIHA	American Industrial Hygiene Association	OPA	Oil Pollution Act of 1990
ANSI	American National Standards Institute (212)642-4900	OSHA	U.S. Occupational Safety & Health Administration
API	American Petroleum Institute (202)682-8000	PEL	Permissible Exposure Limit (OSHA)
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation [General Info: (800)467-4922]	REL	Recommended Exposure Limit (NIOSH)
EPA	U.S. Environmental Protection Agency	SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
HMIS	Hazardous Materials Information System	SCBA	Self-Contained Breathing Apparatus
IARC	International Agency For Research On Cancer	SPCC	Spill Prevention, Control, and Countermeasures
MSHA	Mine Safety and Health Administration	STEL	Short-Term Exposure Limit (generally 15 minutes)
NFPA	National Fire Protection Association (617)770-3000	TLV	Threshold Limit Value (ACGIH)
NIOSH	National Institute of Occupational Safety and Health	TSCA	Toxic Substances Control Act
NOIC	Notice of Intended Change (proposed change to ACGIH TLV)	TWA	Time Weighted Average (8 hr.)
		WEEL	Workplace Environmental Exposure Level (AIHA)
		WHMIS	Workplace Hazardous Materials Information System (Canada)

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.



MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types)

MSDS No. 9909

EMERGENCY OVERVIEW

CAUTION!

**OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT
EFFECTS CENTRAL NERVOUS SYSTEM
HARMFUL OR FATAL IF SWALLOWED**

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation (rash). Long-term, repeated exposure may cause skin cancer. If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).



NFPA 704 (Section 16)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): **CHEMTREC (800) 424-9300**

COMPANY CONTACT (business hours): Corporate Safety (732) 750-6000

MSDS INTERNET WEBSITE: www.hess.com (See Environment, Health, Safety & Social Responsibility)

SYNONYMS: Ultra Low Sulfur Diesel (ULSD); Low Sulfur Diesel; Motor Vehicle Diesel Fuel; Diesel Fuel #2; Dyed Diesel Fuel; Non-Road, Locomotive and Marine Diesel Fuel; Tax-exempt Diesel Fuel

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and CHEMICAL INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Diesel Fuel (68476-34-6)	100
Naphthalene (91-20-3)	Typically < 0.01

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher. Diesel fuel may be dyed (red) for tax purposes. May contain a multifunctional additive.

3. HAZARDS IDENTIFICATION

EYES

Contact with liquid or vapor may cause mild irritation.

SKIN

May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

INGESTION

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.



MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types)

MSDS No. 9909

INHALATION

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY

Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

4. FIRST AID MEASURES

EYES

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	> 125 °F (> 52 °C) minimum PMCC
AUTOIGNITION POINT:	494 °F (257 °C)
OSHA/NFPA FLAMMABILITY CLASS:	2 (COMBUSTIBLE)
LOWER EXPLOSIVE LIMIT (%):	0.6
UPPER EXPLOSIVE LIMIT (%):	7.5

FIRE AND EXPLOSION HAZARDS

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO₂, water spray, fire fighting foam, or Halon.



MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types)

MSDS No. 9909

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

FIRE FIGHTING INSTRUCTIONS

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

7. HANDLING and STORAGE

HANDLING PRECAUTIONS

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Diesel fuel, and in particular low and ultra low sulfur diesel fuel, has the capability of accumulating a static electrical charge of sufficient energy to cause a fire/explosion in the presence of lower flashpoint products such as gasoline. The accumulation of such a static charge occurs as the diesel flows through pipelines, filters, nozzles and various work tasks such as tank/container filling, splash loading, tank cleaning; product sampling; tank gauging; cleaning, mixing, vacuum truck operations, switch loading, and product agitation. There is a greater potential for static charge accumulation in cold temperature, low humidity conditions.

Documents such as 29 CFR OSHA 1910.106 "Flammable and Combustible Liquids, NFPA 77 Recommended Practice on Static Electricity, API 2003 "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents and ASTM D4865 "Standard Guide for Generation and Dissipation of Static



MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types)

MSDS No. 9909

Electricity in Petroleum Fuel Systems" address special precautions and design requirements involving loading rates, grounding, bonding, filter installation, conductivity additives and especially the hazards associated with "switch loading." ["Switch Loading" is when a higher flash point product (such as diesel) is loaded into tanks previously containing a low flash point product (such as gasoline) and the electrical charge generated during loading of the diesel results in a static ignition of the vapor from the previous cargo (gasoline).]

Note: When conductivity additives are used or are necessary the product should achieve 25 picosiemens/meter or greater at the handling temperature.

STORAGE PRECAUTIONS

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Components (CAS No.)	Source	<u>Exposure Limits</u>		Note
		TWA/STEL		
Diesel Fuel: (68476-34-6)	OSHA	5 mg/m, as mineral oil mist		
	ACGIH	100 mg/m ³ (as totally hydrocarbon vapor) TWA		A3, skin
Naphthalene (91-20-3)	OSHA	10 ppm TWA		
	ACGIH	10 ppm TWA / 15 ppm STEL		A4, Skin

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.



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RESPIRATORY PROTECTION

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE

Clear, straw-yellow liquid. Dyed fuel oil will be red or reddish-colored.

ODOR

Mild, petroleum distillate odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE: 320 to 690 oF (160 to 366 °C)
VAPOR PRESSURE: 0.009 psia @ 70 °F (21 °C)
VAPOR DENSITY (air = 1): > 1.0
SPECIFIC GRAVITY (H₂O = 1): 0.83 to 0.88 @ 60 °F (16 °C)
PERCENT VOLATILES: 100 %
EVAPORATION RATE: Slow; varies with conditions
SOLUBILITY (H₂O): Negligible

10. STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ®; Fluorel ®

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY

Acute dermal LD50 (rabbits): > 5 ml/kg Acute oral LD50 (rats): 9 ml/kg
Primary dermal irritation: extremely irritating (rabbits) Draize eye irritation: non-irritating (rabbits)
Guinea pig sensitization: negative

CHRONIC EFFECTS AND CARCINOGENICITY

Carcinogenic: OSHA: NO IARC: NO NTP: NO ACGIH: A3

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

MUTAGENICITY (genetic effects)

This material has been positive in a mutagenicity study.



MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types)

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12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Diesel Fuel	Placard (International Only):
HAZARD CLASS and PACKING GROUP:	3, PG III	
DOT IDENTIFICATION NUMBER:	NA 1993 (Domestic)	
	UN 1202 (International)	
DOT SHIPPING LABEL:	None	



Use Combustible Placard if shipping in bulk domestically

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

<u>ACUTE HEALTH</u>	<u>CHRONIC HEALTH</u>	<u>FIRE</u>	<u>SUDDEN RELEASE OF PRESSURE</u>	<u>REACTIVE</u>
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the *de minimis* levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

CALIFORNIA PROPOSITION 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

<u>INGREDIENT NAME (CAS NUMBER)</u>	<u>Date Listed</u>
Diesel Engine Exhaust (no CAS Number listed)	10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 3 (Combustible Liquid) and Class D, Division 2, Subdivision B (Toxic by other means)



MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types)

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16. OTHER INFORMATION

NFPA® HAZARD RATING

HEALTH:	0
FIRE:	2
REACTIVITY:	0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING

HEALTH:	1 *	* Chronic
FIRE:	2	
PHYSICAL:	0	

SUPERSEDES MSDS DATED: 02/28/2001

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
AIHA	American Industrial Hygiene Association	OPA	Oil Pollution Act of 1990
ANSI	American National Standards Institute (212) 642-4900	OSHA	U.S. Occupational Safety & Health Administration
API	American Petroleum Institute (202) 682-8000	PEL	Permissible Exposure Limit (OSHA)
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation [General info: (800) 467-4922]	REL	Recommended Exposure Limit (NIOSH)
EPA	U.S. Environmental Protection Agency	SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
HMIS	Hazardous Materials Information System	SCBA	Self-Contained Breathing Apparatus
IARC	International Agency For Research On Cancer	SPCC	Spill Prevention, Control, and Countermeasures
MSHA	Mine Safety and Health Administration	STEL	Short-Term Exposure Limit (generally 15 minutes)
NFPA	National Fire Protection Association (617)770-3000	TLV	Threshold Limit Value (ACGIH)
NIOSH	National Institute of Occupational Safety and Health	TSCA	Toxic Substances Control Act
NOIC	Notice of Intended Change (proposed change to ACGIH TLV)	TWA	Time Weighted Average (8 hr.)
		WEEL	Workplace Environmental Exposure Level (AIHA)
		WHMIS	Canadian Workplace Hazardous Materials Information System

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

APPENDIX C: BORING LOGS

BORING LOGBORING: **SB2-S2**TOTAL DEPTH: **25.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	30' South of SB2		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253 Whittram Avenue		METHOD OF DRILLING:	Direct Push
	Fontana, California 92335		SAMPLING METHODS:	Dual-Tube, Acetate liners
JOB NO.:	SM19-259094.3		BORING DIAMETER:	2.25"
LOGGED BY:	M. Williams		DRILLER:	BC2 Environmental
REVIEWED BY:	S. Rosen		DATES DRILLED:	11/25/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB2S2-1'	0.0		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	-hand auger to 2.5'
5	SB2S2-5'	0.0				
10	SB2S2-10'	0.1				
15	SB2S2-15'	1.6		SP		
25	SB2S2-25'	0.9				

NOTES: Refusal at 25.5'

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DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
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BORING LOGBORING: **SB6-E2**TOTAL DEPTH: **13'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' East of SB6		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	D. Horell/M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/19/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0		0.0				
	SB6E2-1'			SM	Moist, brown to dark brown, fine grained silty SAND with trace gravel.	-hand auger to 3'
5	SB6E2-5'	0.0		SP	Moist, light brown to gray, fine to medium SAND with trace gravel.	
10	SB6E2-10'	0.0			-rocks were encountered at 11' and 12'	

NOTES: Refusal at 13'

BORING LOGBORING: **SB6-N1**TOTAL DEPTH: **21.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	50' North of SB6		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	D. Horell		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/19/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB6N1-1'	0.0		SM	Moist, brown, poorly graded, fine grained silty SAND with trace gravel.	-hand auger to 2.5'
5	SB6N1-5'	0.0		SM	Moist, brown, poorly graded, fine grained silty SAND with trace gravel.	
10	SB6N1-10'	0.0		SP	Light brown to gray, poorly graded, fine to medium grained silty SAND with gravel.	
15	SB6N1-15'	0.0			-6" layer of fine to medium graded brown SAND with trace gravel from 16'-19'	
20	SB6N1-21'	0.0			-gray from 19-21.5'	

NOTES: Refusal at 21.5'

BORING LOG

BORING: SB6-N2

TOTAL DEPTH: 25.5'

2154 Torrance Boulevard, Suite 200
Torrance, California 90501

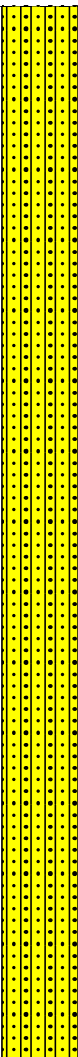

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' North of SB6		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push, geoprobe
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	D. Horell		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/19/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB6N2-1'	0.0		SM	Moist, brown, poorly graded, fine grained silty SAND with trace gravel.	-hand auger to 4'
5	SB6N2-5'	0.0		SP	Moist, brown to light brown, poorly graded, fine to medium grained SAND with trace gravel. -light brown to gray, 6' to 9' -brown, fine to medium grained at 10'	
10	SB6N2-10'	0.0		SG	-becomes light brown to gray, with gravel, fine to coarse grained below 11'	
15	SB6N2-15'	0.0		SG	Moist, light brown to gray, poorly graded, fine to coarse grained gravelly SAND.	
20				SP	Moist, light brown to gray, poorly graded, fine to coarse grained SAND with gravel.	
25	SB6N2-25'	0.0			-greenish brown seam at 24'	

NOTES: Boring Terminated at 25.5' bgs

BORING LOGBORING: **SB6-S1**TOTAL DEPTH: **17.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION		
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.	
LOCATION:	50' South of SB6		RIG TYPE:	Geoprobe Truck-Mounted Rig	
SITE ADDRESS:	14253 Whittram Avenue		METHOD OF DRILLING:	Direct Push	
	Fontana, California 92335		SAMPLING METHODS:	Dual-Tube, Acetate liners	
JOB NO.:	SM19-259094.3		BORING DIAMETER:	2.25"	
LOGGED BY:	M. Williams		DRILLER:	BC2 Environmental	
REVIEWED BY:	S. Rosen		DATES DRILLED:	11/20/19	

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB6S1-1'	0.0		SM	Dry, brown, poorly graded silty SAND with trace gravel (1/4"-1/2").	-hand auger to 2.5'
5	SB6S1-5'	0.0				
10	SB6S1-10'	0.0				
15	SB6S1-15'	0.0				
				CP	Dry, brown, poorly graded sandy GRAVEL.	

NOTES: Refusal at 17.5'

BORING LOGBORING: **SB6-W1**TOTAL DEPTH: **20.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	50' West of SB6		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	EC2 Environmental
			DATES DRILLED:	11/20/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB6W1-1'	0.1		SM	Dry, brown, fine to medium silty SAND with fine gravel (1/4" - 1/2").	-hand auger to 2.5'
5	SB6W1-5'	0.1			Dry, brown, fine to coarse grained silty SAND with fine gravel (1/4" - 1").	
10	SB6W1-10'	0.0		SP		
15	SB6W1-15'	0.0				
20	SB6W1-20'	0.0		GP	Brown, fine to coarse grained SAND with fine gravel (1/4"-2").	

NOTES:

BORING LOG

BORING: SB8-E1

TOTAL DEPTH: 20'

2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	50' East of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/22/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB8E1-1'	1.7		SP	Dry, reddish brown, poorly graded, fine to medium grained, silty SAND with gravel (1/4"-3").	-hand auger upper 2.5'
5	SB8E1-5'	0.0		SP	Brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2.5").	
10	SB8E1-10'	0.0		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	
15	SB8E1-15'	0.0		GP	Dry, brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2").	
20	SB8E1-20'				Boring terminated at 20' due to refusal	

NOTES: Refusal at 20'

BORING LOGBORING: **SB8-E2**TOTAL DEPTH: **20'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' East of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	MW		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/22/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB8E2-1'	5.8		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with gravel (1/4"-1/2").	-hand auger 2.5'
5	SB8E2-5'	3.2		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	
				SM	Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1").	
					Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/2"-2.5").	
10	SB8E2-10'	0.0				
15	SB8E2-15'	0.0		GP		
20	SB8E2-20'					

NOTES: Refusal at 20'

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DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
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BORING LOGBORING: **SB8-N2**TOTAL DEPTH: **25.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' North of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/21/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB8N2-1'	1.5		SM	Moist, brown, poorly sorted, fine to medium grained silty SAND.	-hand auger to 2.5'
5	SB8N2-5'	3.8		SM	Dry, light brown, poorly graded, fine to coarse grained silty SAND with trace gravel (1/4" - 2").	
10	SB8N2-10'	5.4		SM	Dry, reddish brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4" - 1/2").	
15	SB8N2-15'	4.1		SP	Brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4" - 2").	
				SM	Moist, brown, poorly graded, fine to medium grained silty SAND.	
20	SB8N2-20'	4.6		GP	Dry, brown, poorly graded, fine to coarse grained sandy GRAVEL (1/8" - 2.5").	
25	SB8N2-25'	3.2				

NOTES: Boring terminated at 25.5'

BORING LOGBORING: **SB8-S1**TOTAL DEPTH: **19.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	50' South of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/22/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0		0.0				
	SB8S1-1'			SM	Dry, brown, fine to medium grained silt SAND with trace gravel	-hand auger to 2.5'
5	SB8S1-5'			SP	Dry, brown, fine to coarse silty SAND with gravel (1/4"-1.5").	
10	SB8S1-10'			SM	Moist, brown, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	
				SP	Dry, brown/gray, fine to coarse grained silty SAND with gravel (1/4"-1.5").	
15	SB8S1-15'					
				GP	Dry, brown/gray, poorly graded sandy GRAVEL.	
	SB8S1-20'					

NOTES: Refusal at 19.5'
Driller initially advanced to 20' bgs but cave-in resulted in 19.5' total depth

BORING LOGBORING: **SB8-S2**TOTAL DEPTH: **25.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' South of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/22/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB8S2-1'	1.6				
5	SB8S2-5'	0.0		SM		
10	SB82-10'	0.0		SM	Dry, reddish brown, fine to coarse grained silty SAND with gravel (1/4"-1/2").	
				SM	Moist, brown, fine to medium grained silty SAND with gravel (1/4"-1/2").	
15	SB8S2-15'	0.0		SP	Dry, brown, fine to coarse grained silty SAND with gravel (1/4"-1/2").	
20		0.0		GP	Dry, brown/gray, fine to coarse grained sandy GRAVEL with gravel (1/4"-2.5").	
25	SB8S2-25'	0.0			Boring terminated at 25.5'	

NOTES:

BORING LOGBORING: **SB8-W1**TOTAL DEPTH: **25.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	50' West of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/21/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB8W1-1'	0.3		SM	Moist, brown, poorly graded silty SAND.	-hand auger to 2.5'
5	SB8W1-5'	4.6		SM	Dry, brown/gray, poorly graded, fine to coarse silty SAND with gravel (1/4"-1").	
10	SB8W1-10'	4.8		SM	Dry, brown/gray, poorly graded, fine to coarse silty SAND with gravel (1/4"-1/2").	
15	SB8W1-15'	3.5		SM	Dry, gray, poorly graded, fine to coarse silty SAND with gravel (1/2"-2").	
20				GP	Dry, brown/gray, poorly sorted sandy GRAVEL.	
25	SB8W1-25'	2.4				

NOTES: Refusal at 25.5'

BORING LOGBORING: **SB8-W2**TOTAL DEPTH: **25.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' West of SB8		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/21/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB8W2-1'	0.0		SM	Moist, brown, poorly graded, fine to coarse silty SAND with trace gravel (1/4").	-hand auger to 2.5'
5	SB8W2-5'	0.0		SP	Dry, brown, poorly graded, fine to coarse silty SAND with gravel (1/4"-2").	
10	SB8W2-10'	0.0		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	
15	SB8W2-15'	0.0		SM	Dry, brown, poorly graded, fine to coarse silty SAND with gravel (1/4"-1").	
20				SM	Dry, reddish brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1/2").	
25				SM	Dry, brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1.5").	

NOTES: Refusal at 25.5'

BORING LOGBORING: **SB15-E1**TOTAL DEPTH: **16'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION					DRILLING INFORMATION	
PROJECT:	Whittram Fontana				DEPTH TO GROUNDWATER:	N.A.
LOCATION:	30' East of SB15				RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335				METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3				SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams				BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen				DRILLER:	BC2 Environmental
					DATES DRILLED:	11/26/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0		0.0				
	SB15E1-1'			SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	-hand auger to 2.5'
5	SB15E1-5'	0.1		SM	Dry, brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1").	
10	SB15E1-10'	0.1			Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2").	
				SP	-brown to gray SAND, with increasing percentage of gravel, poorly sorted	
15	SB15E1-16'					

NOTES: Refusal at 16'

BORING LOG

BORING: SB15-E2

TOTAL DEPTH: 20'

2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION					DRILLING INFORMATION	
PROJECT:	Whittram Fontana				DEPTH TO GROUNDWATER:	N.A.
LOCATION:	60' East of SB15				RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335				METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3				SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams				BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen				DRILLER:	BC2 Environmental
					DATES DRILLED:	11/26/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB15E2-1'	1.4		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	-hand auger to 2.5'
5	SB15E2-5'	0.0		SM	Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1/2").	
10	SB15E2-10'	0.0		GP	Dry, gray, poorly graded, fine to coarse grained sandy GRAVEL with gravel (1/4"-2.5").	
15	SB15E2-15'	0.2				
20	SB15E2-20'	0.4		SM	Dry, brown/gray, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	
				SM	Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2.5").	

NOTES: Refusal at 20'

BORING LOGBORING: **SB15-N1**TOTAL DEPTH: **26'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	50' North of SB15		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/26/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB15N1-1'	0.0		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	-hand auger to 2.5'
5	SB15N1-5'	0.0		SM	Dry, brown/gray, poorly graded, fine to medium grained silty SAND with gravel (1/4"-1").	
10	SB15N1-10'	0.1		SP	Dry, brown/gray, poorly graded silty SAND with gravel (1/2"-2").	
15	SB15N1-15'	0.4		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	
20				SP	Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1.5").	
25	SB15N1-25'	0.0				

NOTES: Refusal at 26'

BORING LOGBORING: **SB15-N2**TOTAL DEPTH: **26'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	100' North of SB15		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/26/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
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0	SB15N2-1'	1.4		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	-hand auger to 2'
					Dry, brown/gray, poorly graded silty SAND with trace gravel (1/4"-2").	
5	SB15N2-5'	0.3		SM		
10	SB15N2-10'	0.0		SM	Dry, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4").	
					Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2").	
15	SB15N2-15'	0.0		SP		
20		0.0				
25	SB15N2-25'	0.0		SP	Dry, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	
					Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2.5").	

NOTES: Refusal at 26'

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Torrance, California 90501

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
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[illegible]

Drillers advanced to 4.0' bgs (refusal). Drilled over to try again, encountered refusal at 3.0' bgs. Returned to original boring of 4.0'

BORING LOGBORING: **SB15-S2**TOTAL DEPTH: **5.5'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION					DRILLING INFORMATION	
PROJECT:	Whittram Fontana				DEPTH TO GROUNDWATER:	N.A.
LOCATION:	Approximately 60' Southwest of SB15				RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335				METHOD OF DRILLING:	N.A.
JOB NO.:	SM19-259094.3				SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams				BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen				DRILLER:	BC2 Environmental
					DATES DRILLED:	11/25/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0		1.5				
	SB15S2-1'			SM	Moist, brown, poorly graded, fine to medium coarse grained silty SAND with trace gravel (1/4"-1/2").	-hand auger to 2'
				SP	Dry, brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2.5").	
5	SB15S2-5'	0.2				

NOTES: Refusal at 5.5'
Initial refusal at 2.5'. New boring to depth 5.5'

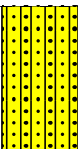
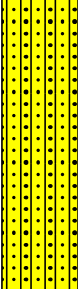

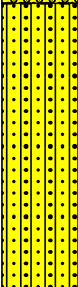
BORING LOG

BORING: SB15-W1

TOTAL DEPTH: 4'

2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION					DRILLING INFORMATION	
PROJECT:	Whittram Fontana				DEPTH TO GROUNDWATER:	N.A.
LOCATION:	30' West of SB15				RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335				METHOD OF DRILLING:	N.A.
JOB NO.:	SM19-259094.3				SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams				BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen				DRILLER:	BC2 Environmental
					DATES DRILLED:	11/25/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0		4.7			Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	-hand auger to 2.5'
	SB15W1-1'			SM		
				SP	Dry, brown/gray, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-1.5").	
	SB15W1-4'	0.8		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	

NOTES: Refusal at 4.0'

BORING LOGBORING: **SB15-W2**TOTAL DEPTH: **16'**2154 Torrance Boulevard, Suite 200
Torrance, California 90501

PROJECT INFORMATION			DRILLING INFORMATION	
PROJECT:	Whittram Fontana		DEPTH TO GROUNDWATER:	N.A.
LOCATION:	60' West of SB15		RIG TYPE:	Geoprobe Truck-Mounted Rig
SITE ADDRESS:	14253, 14315 and 14339 Whittram Avenue Fontana, California 92335		METHOD OF DRILLING:	Direct Push
JOB NO.:	SM19-259094.3		SAMPLING METHODS:	Dual-Tube, Acetate liners
LOGGED BY:	M. Williams		BORING DIAMETER:	2.25"
REVIEWED BY:	S. Rosen		DRILLER:	BC2 Environmental
			DATES DRILLED:	11/25/19

DEPTH	SAMPLE	PID (ppm)	SOIL TYPE	USCS	SOIL TYPE	NOTES
0	SB15W2-1'	0.0		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	-hand auger to 2.5'
5	SB15W2-5'	0.0		SP	Dry, brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2.5").	
10	SB15W2-10'	0.0		SM	Moist, brown, poorly graded, fine to medium grained silty SAND with trace gravel (1/4"-1/2").	
15	SB15W2-15'	0.0		SP	Dry, brown, poorly graded, fine to coarse grained silty SAND with gravel (1/4"-2.5").	
					-0% recovery from 14' to 15'	

NOTES: Refusal at 16.0'

APPENDIX D-1: SOIL LABORATORY ANALYSIS REPORTS



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 11/21/19 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB6N2-1	T194052-01	Soil	11/19/19 07:30	11/21/19 16:15
SB6N2-5	T194052-02	Soil	11/19/19 07:55	11/21/19 16:15
SB6N2-10	T194052-03	Soil	11/19/19 08:05	11/21/19 16:15
SB6N1-1	T194052-06	Soil	11/19/19 12:10	11/21/19 16:15
SB6N1-5	T194052-07	Soil	11/19/19 12:15	11/21/19 16:15
SB6N1-10	T194052-08	Soil	11/19/19 12:22	11/21/19 16:15
SB6E1-1	T194052-11	Soil	11/19/19 13:19	11/21/19 16:15
SB6E1-5	T194052-12	Soil	11/19/19 13:32	11/21/19 16:15
SB6E1-10	T194052-13	Soil	11/19/19 13:45	11/21/19 16:15
SB6E2-1	T194052-14	Soil	11/19/19 14:58	11/21/19 16:15
SB6E2-5	T194052-15	Soil	11/19/19 15:05	11/21/19 16:15
SB6E2-10	T194052-16	Soil	11/19/19 15:12	11/21/19 16:15
SB6S1-1	T194052-17	Soil	11/20/19 07:48	11/21/19 16:15
SB6S1-5	T194052-18	Soil	11/20/19 07:58	11/21/19 16:15
SB6S1-10	T194052-19	Soil	11/20/19 08:05	11/21/19 16:15
SB6S2-1	T194052-21	Soil	11/20/19 09:32	11/21/19 16:15
SB6S2-5	T194052-22	Soil	11/20/19 09:44	11/21/19 16:15
SB6S2-10	T194052-23	Soil	11/20/19 09:50	11/21/19 16:15
SB6W1-1	T194052-26	Soil	11/20/19 12:24	11/21/19 16:15
SB6W1-5	T194052-27	Soil	11/20/19 12:41	11/21/19 16:15
SB6W1-10	T194052-28	Soil	11/20/19 12:48	11/21/19 16:15
SB6W2-1	T194052-31	Soil	11/20/19 14:05	11/21/19 16:15
SB6-W2-5	T194052-32	Soil	11/20/19 14:15	11/21/19 16:15
SB6-W2-10	T194052-33	Soil	11/20/19 14:20	11/21/19 16:15
SB8-N2-1	T194052-36	Soil	11/21/19 09:41	11/21/19 16:15
SB8-N2-5	T194052-37	Soil	11/21/19 09:52	11/21/19 16:15

SunStar Laboratories, Inc.



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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8-N2-10	T194052-38	Soil	11/21/19 10:02	11/21/19 16:15
SB8-N1-1	T194052-42	Soil	11/21/19 07:42	11/21/19 16:15
SB8-N1-5	T194052-43	Soil	11/21/19 07:54	11/21/19 16:15
SB8-N1-10	T194052-44	Soil	11/21/19 08:12	11/21/19 16:15
SB8-N1-15	T194052-45	Soil	11/21/19 08:18	11/21/19 16:15
SB8-W1-1	T194052-48	Soil	11/21/19 12:50	11/21/19 16:15
SB8-W1-5	T194052-49	Soil	11/21/19 12:55	11/21/19 16:15
SB8-W1-10	T194052-50	Soil	11/21/19 13:08	11/21/19 16:15

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

DETECTIONS SUMMARY

Sample ID: SB6N2-1

Laboratory ID: T194052-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	39	10	mg/kg	EPA 8015B	
Barium	170	5.0	mg/kg	EPA 6010b	RE-01
Chromium	9.7	2.0	mg/kg	EPA 6010b	
Cobalt	5.9	2.0	mg/kg	EPA 6010b	
Copper	6.1	1.0	mg/kg	EPA 6010b	
Lead	4.3	3.0	mg/kg	EPA 6010b	
Nickel	4.7	2.0	mg/kg	EPA 6010b	
Vanadium	28	5.0	mg/kg	EPA 6010b	
Zinc	31	1.0	mg/kg	EPA 6010b	

Sample ID: SB6N2-5

Laboratory ID: T194052-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	36	1.0	mg/kg	EPA 6010b	
Chromium	9.9	2.0	mg/kg	EPA 6010b	
Cobalt	5.4	2.0	mg/kg	EPA 6010b	
Copper	10	1.0	mg/kg	EPA 6010b	
Lead	4.2	3.0	mg/kg	EPA 6010b	
Nickel	5.1	2.0	mg/kg	EPA 6010b	
Vanadium	23	5.0	mg/kg	EPA 6010b	
Zinc	27	1.0	mg/kg	EPA 6010b	

Sample ID: SB6N2-10

Laboratory ID: T194052-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	30	1.0	mg/kg	EPA 6010b	
Chromium	8.2	2.0	mg/kg	EPA 6010b	
Cobalt	7.1	2.0	mg/kg	EPA 6010b	
Copper	6.1	1.0	mg/kg	EPA 6010b	
Lead	3.7	3.0	mg/kg	EPA 6010b	
Nickel	6.2	2.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6N2-10

Laboratory ID: T194052-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Vanadium	22	5.0	mg/kg	EPA 6010b	
Zinc	30	1.0	mg/kg	EPA 6010b	

Sample ID: SB6N1-1

Laboratory ID: T194052-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	48	10	mg/kg	EPA 8015B	
Barium	160	5.0	mg/kg	EPA 6010b	RE-01
Chromium	11	2.0	mg/kg	EPA 6010b	
Cobalt	6.6	2.0	mg/kg	EPA 6010b	
Copper	8.9	1.0	mg/kg	EPA 6010b	
Lead	5.2	3.0	mg/kg	EPA 6010b	
Nickel	6.2	2.0	mg/kg	EPA 6010b	
Vanadium	30	5.0	mg/kg	EPA 6010b	
Zinc	38	1.0	mg/kg	EPA 6010b	

Sample ID: SB6N1-5

Laboratory ID: T194052-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	19	10	mg/kg	EPA 8015B	
Barium	160	5.0	mg/kg	EPA 6010b	RE-01
Chromium	8.6	2.0	mg/kg	EPA 6010b	
Cobalt	5.6	2.0	mg/kg	EPA 6010b	
Copper	5.4	1.0	mg/kg	EPA 6010b	
Lead	3.9	3.0	mg/kg	EPA 6010b	
Nickel	4.2	2.0	mg/kg	EPA 6010b	
Vanadium	27	5.0	mg/kg	EPA 6010b	
Zinc	30	1.0	mg/kg	EPA 6010b	

Sample ID: SB6N1-10

Laboratory ID: T194052-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	26	1.0	mg/kg	EPA 6010b	
Chromium	7.2	2.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6N1-10

Laboratory ID: T194052-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Cobalt	4.5	2.0		mg/kg	EPA 6010b	
Copper	9.1	1.0		mg/kg	EPA 6010b	
Lead	3.6	3.0		mg/kg	EPA 6010b	
Nickel	5.7	2.0		mg/kg	EPA 6010b	
Vanadium	17	5.0		mg/kg	EPA 6010b	
Zinc	22	1.0		mg/kg	EPA 6010b	

Sample ID: SB6E1-1

Laboratory ID: T194052-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	19	10		mg/kg	EPA 8015B	
Barium	180	5.0		mg/kg	EPA 6010b	RE-01
Chromium	13	2.0		mg/kg	EPA 6010b	
Cobalt	7.4	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	5.6	3.0		mg/kg	EPA 6010b	
Nickel	7.4	2.0		mg/kg	EPA 6010b	
Vanadium	32	5.0		mg/kg	EPA 6010b	
Zinc	42	1.0		mg/kg	EPA 6010b	

Sample ID: SB6E1-5

Laboratory ID: T194052-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	16	10		mg/kg	EPA 8015B	
Barium	190	5.0		mg/kg	EPA 6010b	RE-01
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	6.9	2.0		mg/kg	EPA 6010b	
Copper	7.9	1.0		mg/kg	EPA 6010b	
Lead	4.0	3.0		mg/kg	EPA 6010b	
Nickel	6.2	2.0		mg/kg	EPA 6010b	
Vanadium	30	5.0		mg/kg	EPA 6010b	
Zinc	36	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6E1-10

Laboratory ID: T194052-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	23	1.0		mg/kg	EPA 6010b	
Chromium	9.5	2.0		mg/kg	EPA 6010b	
Cobalt	4.8	2.0		mg/kg	EPA 6010b	
Copper	8.9	1.0		mg/kg	EPA 6010b	
Lead	4.6	3.0		mg/kg	EPA 6010b	
Nickel	7.0	2.0		mg/kg	EPA 6010b	
Vanadium	17	5.0		mg/kg	EPA 6010b	
Zinc	24	1.0		mg/kg	EPA 6010b	

Sample ID: SB6E2-1

Laboratory ID: T194052-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	59	10		mg/kg	EPA 8015B	
Barium	180	5.0		mg/kg	EPA 6010b	RE-01
Chromium	15	2.0		mg/kg	EPA 6010b	
Cobalt	6.5	2.0		mg/kg	EPA 6010b	
Copper	14	1.0		mg/kg	EPA 6010b	
Lead	9.6	3.0		mg/kg	EPA 6010b	
Nickel	8.5	2.0		mg/kg	EPA 6010b	
Vanadium	30	5.0		mg/kg	EPA 6010b	
Zinc	63	1.0		mg/kg	EPA 6010b	

Sample ID: SB6E2-5

Laboratory ID: T194052-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	32	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	5.4	2.0		mg/kg	EPA 6010b	
Copper	9.3	1.0		mg/kg	EPA 6010b	
Lead	4.1	3.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	22	5.0		mg/kg	EPA 6010b	
Zinc	26	1.0		mg/kg	EPA 6010b	

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6E2-10

Laboratory ID: T194052-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	30	1.0		mg/kg	EPA 6010b	
Chromium	8.7	2.0		mg/kg	EPA 6010b	
Cobalt	5.4	2.0		mg/kg	EPA 6010b	
Copper	12	1.0		mg/kg	EPA 6010b	
Lead	3.8	3.0		mg/kg	EPA 6010b	
Nickel	5.8	2.0		mg/kg	EPA 6010b	
Vanadium	22	5.0		mg/kg	EPA 6010b	
Zinc	27	1.0		mg/kg	EPA 6010b	

Sample ID: SB6S1-1

Laboratory ID: T194052-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	46	10		mg/kg	EPA 8015B	
Barium	150	5.0		mg/kg	EPA 6010b	RE-01
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	6.3	2.0		mg/kg	EPA 6010b	
Copper	16	1.0		mg/kg	EPA 6010b	
Lead	11	3.0		mg/kg	EPA 6010b	
Nickel	8.3	2.0		mg/kg	EPA 6010b	
Vanadium	29	5.0		mg/kg	EPA 6010b	
Zinc	62	1.0		mg/kg	EPA 6010b	

Sample ID: SB6S1-5

Laboratory ID: T194052-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	32	1.0		mg/kg	EPA 6010b	
Chromium	9.5	2.0		mg/kg	EPA 6010b	
Cobalt	5.0	2.0		mg/kg	EPA 6010b	
Copper	8.1	1.0		mg/kg	EPA 6010b	
Lead	3.9	3.0		mg/kg	EPA 6010b	
Nickel	6.6	2.0		mg/kg	EPA 6010b	
Vanadium	20	5.0		mg/kg	EPA 6010b	
Zinc	26	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6S1-10

Laboratory ID: T194052-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	6.3	5.0		mg/kg	EPA 6010b	
Barium	24	1.0		mg/kg	EPA 6010b	
Beryllium	1.5	1.0		mg/kg	EPA 6010b	
Cadmium	2.1	2.0		mg/kg	EPA 6010b	
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	6.5	2.0		mg/kg	EPA 6010b	
Copper	9.7	1.0		mg/kg	EPA 6010b	
Lead	5.7	3.0		mg/kg	EPA 6010b	
Nickel	9.2	2.0		mg/kg	EPA 6010b	
Vanadium	19	5.0		mg/kg	EPA 6010b	
Zinc	25	1.0		mg/kg	EPA 6010b	

Sample ID: SB6S2-1

Laboratory ID: T194052-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	54	10		mg/kg	EPA 8015B	
Barium	60	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	5.7	2.0		mg/kg	EPA 6010b	
Copper	14	1.0		mg/kg	EPA 6010b	
Lead	11	3.0		mg/kg	EPA 6010b	
Nickel	7.4	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	64	1.0		mg/kg	EPA 6010b	

Sample ID: SB6S2-5

Laboratory ID: T194052-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	32	1.0		mg/kg	EPA 6010b	
Chromium	8.6	2.0		mg/kg	EPA 6010b	
Cobalt	4.4	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	3.3	3.0		mg/kg	EPA 6010b	
Nickel	5.4	2.0		mg/kg	EPA 6010b	
Vanadium	18	5.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6S2-5

Laboratory ID: T194052-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Zinc	23	1.0		mg/kg	EPA 6010b	

Sample ID: SB6S2-10

Laboratory ID: T194052-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.7	5.0		mg/kg	EPA 6010b	
Barium	26	1.0		mg/kg	EPA 6010b	
Chromium	19	2.0		mg/kg	EPA 6010b	
Cobalt	5.3	2.0		mg/kg	EPA 6010b	
Copper	9.6	1.0		mg/kg	EPA 6010b	
Lead	3.6	3.0		mg/kg	EPA 6010b	
Nickel	7.8	2.0		mg/kg	EPA 6010b	
Vanadium	20	5.0		mg/kg	EPA 6010b	
Zinc	24	1.0		mg/kg	EPA 6010b	

Sample ID: SB6W1-1

Laboratory ID: T194052-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	24	10		mg/kg	EPA 8015B	
Barium	57	1.0		mg/kg	EPA 6010b	
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	6.1	2.0		mg/kg	EPA 6010b	
Copper	9.8	1.0		mg/kg	EPA 6010b	
Lead	12	3.0		mg/kg	EPA 6010b	
Nickel	6.7	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	50	1.0		mg/kg	EPA 6010b	

Sample ID: SB6W1-5

Laboratory ID: T194052-27

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	17	10		mg/kg	EPA 8015B	
Barium	33	0.91		mg/kg	EPA 6010b	
Chromium	10	1.8		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6W1-5

Laboratory ID: T194052-27

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Cobalt	4.5	1.8	mg/kg	EPA 6010b	
Copper	7.2	0.91	mg/kg	EPA 6010b	
Lead	2.8	2.7	mg/kg	EPA 6010b	
Nickel	5.9	1.8	mg/kg	EPA 6010b	
Vanadium	18	4.5	mg/kg	EPA 6010b	
Zinc	23	0.91	mg/kg	EPA 6010b	

Sample ID: SB6W1-10

Laboratory ID: T194052-28

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	26	1.0	mg/kg	EPA 6010b	
Chromium	9.4	2.0	mg/kg	EPA 6010b	
Cobalt	4.0	2.0	mg/kg	EPA 6010b	
Copper	9.0	1.0	mg/kg	EPA 6010b	
Lead	4.3	3.0	mg/kg	EPA 6010b	
Nickel	6.5	2.0	mg/kg	EPA 6010b	
Vanadium	16	5.0	mg/kg	EPA 6010b	
Zinc	20	1.0	mg/kg	EPA 6010b	

Sample ID: SB6W2-1

Laboratory ID: T194052-31

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	14	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	100	10	mg/kg	EPA 8015B	
Barium	51	1.0	mg/kg	EPA 6010b	
Chromium	14	2.0	mg/kg	EPA 6010b	
Cobalt	5.4	2.0	mg/kg	EPA 6010b	
Copper	12	1.0	mg/kg	EPA 6010b	
Lead	14	3.0	mg/kg	EPA 6010b	
Nickel	8.6	2.0	mg/kg	EPA 6010b	
Vanadium	24	5.0	mg/kg	EPA 6010b	
Zinc	50	1.0	mg/kg	EPA 6010b	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB6-W2-5

Laboratory ID: T194052-32

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	41	1.0		mg/kg	EPA 6010b	
Chromium	13	2.0		mg/kg	EPA 6010b	
Cobalt	6.4	2.0		mg/kg	EPA 6010b	
Copper	9.0	1.0		mg/kg	EPA 6010b	
Lead	4.0	3.0		mg/kg	EPA 6010b	
Nickel	9.2	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	27	1.0		mg/kg	EPA 6010b	

Sample ID: SB6-W2-10

Laboratory ID: T194052-33

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	24	1.0		mg/kg	EPA 6010b	
Chromium	9.0	2.0		mg/kg	EPA 6010b	
Cobalt	4.9	2.0		mg/kg	EPA 6010b	
Copper	8.9	1.0		mg/kg	EPA 6010b	
Lead	4.2	3.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	18	5.0		mg/kg	EPA 6010b	
Zinc	24	1.0		mg/kg	EPA 6010b	

Sample ID: SB8-N2-1

Laboratory ID: T194052-36

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	630	100		mg/kg	EPA 8015B	O-05
Barium	87	1.0		mg/kg	EPA 6010b	
Cadmium	2.0	2.0		mg/kg	EPA 6010b	
Chromium	90	2.0		mg/kg	EPA 6010b	
Cobalt	6.2	2.0		mg/kg	EPA 6010b	
Copper	30	1.0		mg/kg	EPA 6010b	
Lead	29	3.0		mg/kg	EPA 6010b	
Nickel	15	2.0		mg/kg	EPA 6010b	
Vanadium	48	5.0		mg/kg	EPA 6010b	
Zinc	180	1.0		mg/kg	EPA 6010b	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB8-N2-5

Laboratory ID: T194052-37

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	34	1.0	mg/kg	EPA 6010b	
Chromium	9.9	2.0	mg/kg	EPA 6010b	
Cobalt	5.3	2.0	mg/kg	EPA 6010b	
Copper	8.5	1.0	mg/kg	EPA 6010b	
Nickel	5.9	2.0	mg/kg	EPA 6010b	
Vanadium	19	5.0	mg/kg	EPA 6010b	
Zinc	25	1.0	mg/kg	EPA 6010b	

Sample ID: SB8-N2-10

Laboratory ID: T194052-38

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	23	1.0	mg/kg	EPA 6010b	
Chromium	8.0	2.0	mg/kg	EPA 6010b	
Cobalt	4.5	2.0	mg/kg	EPA 6010b	
Copper	9.8	1.0	mg/kg	EPA 6010b	
Lead	3.4	3.0	mg/kg	EPA 6010b	
Nickel	4.3	2.0	mg/kg	EPA 6010b	
Vanadium	18	5.0	mg/kg	EPA 6010b	
Zinc	24	1.0	mg/kg	EPA 6010b	

Sample ID: SB8-N1-1

Laboratory ID: T194052-42

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	16	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	230	10	mg/kg	EPA 8015B	
Barium	44	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	5.8	2.0	mg/kg	EPA 6010b	
Copper	7.7	1.0	mg/kg	EPA 6010b	
Lead	5.6	3.0	mg/kg	EPA 6010b	
Nickel	8.3	2.0	mg/kg	EPA 6010b	
Vanadium	24	5.0	mg/kg	EPA 6010b	
Zinc	34	1.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB8-N1-5

Laboratory ID: T194052-43

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	33	1.0		mg/kg	EPA 6010b	
Chromium	8.7	2.0		mg/kg	EPA 6010b	
Cobalt	4.7	2.0		mg/kg	EPA 6010b	
Copper	7.1	1.0		mg/kg	EPA 6010b	
Lead	3.2	3.0		mg/kg	EPA 6010b	
Nickel	6.1	2.0		mg/kg	EPA 6010b	
Vanadium	19	5.0		mg/kg	EPA 6010b	
Zinc	24	1.0		mg/kg	EPA 6010b	

Sample ID: SB8-N1-10

Laboratory ID: T194052-44

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	27	1.0		mg/kg	EPA 6010b	
Chromium	8.9	2.0		mg/kg	EPA 6010b	
Cobalt	4.6	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	4.0	3.0		mg/kg	EPA 6010b	
Nickel	7.2	2.0		mg/kg	EPA 6010b	
Vanadium	18	5.0		mg/kg	EPA 6010b	
Zinc	23	1.0		mg/kg	EPA 6010b	

Sample ID: SB8-N1-15

Laboratory ID: T194052-45

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	8.3	5.0		mg/kg	EPA 6010b	
Barium	31	1.0		mg/kg	EPA 6010b	
Chromium	15	2.0		mg/kg	EPA 6010b	
Cobalt	6.3	2.0		mg/kg	EPA 6010b	
Copper	9.1	1.0		mg/kg	EPA 6010b	
Lead	4.3	3.0		mg/kg	EPA 6010b	
Nickel	12	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	27	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Sample ID: SB8-W1-1

Laboratory ID: T194052-48

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	73	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	850	10	mg/kg	EPA 8015B	
Barium	300	5.0	mg/kg	EPA 6010b	RE-01
Cadmium	2.1	2.0	mg/kg	EPA 6010b	
Chromium	540	10	mg/kg	EPA 6010b	RE-01
Cobalt	8.4	2.0	mg/kg	EPA 6010b	
Copper	70	1.0	mg/kg	EPA 6010b	
Lead	23	3.0	mg/kg	EPA 6010b	
Molybdenum	5.5	5.0	mg/kg	EPA 6010b	
Nickel	67	2.0	mg/kg	EPA 6010b	
Vanadium	91	5.0	mg/kg	EPA 6010b	
Zinc	200	1.0	mg/kg	EPA 6010b	

Sample ID: SB8-W1-5

Laboratory ID: T194052-49

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	41	1.0	mg/kg	EPA 6010b	
Chromium	8.0	2.0	mg/kg	EPA 6010b	
Cobalt	5.4	2.0	mg/kg	EPA 6010b	
Copper	8.8	1.0	mg/kg	EPA 6010b	
Nickel	6.3	2.0	mg/kg	EPA 6010b	
Vanadium	22	5.0	mg/kg	EPA 6010b	
Zinc	26	1.0	mg/kg	EPA 6010b	

Sample ID: SB8-W1-10

Laboratory ID: T194052-50

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	25	1.0	mg/kg	EPA 6010b	
Chromium	9.5	2.0	mg/kg	EPA 6010b	
Cobalt	4.4	2.0	mg/kg	EPA 6010b	
Copper	9.8	1.0	mg/kg	EPA 6010b	
Lead	4.2	3.0	mg/kg	EPA 6010b	
Nickel	6.8	2.0	mg/kg	EPA 6010b	
Vanadium	18	5.0	mg/kg	EPA 6010b	
Zinc	22	1.0	mg/kg	EPA 6010b	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-1
T194052-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	39	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		111 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	170	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	9.7	2.0	"	"	"	"	"	"	
Cobalt	5.9	2.0	"	"	"	"	"	"	
Copper	6.1	1.0	"	"	"	"	"	"	
Lead	4.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	31	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-1
T194052-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0048	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0048	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0048	"	"	"	"	"	"	
Bromoform	ND	0.0048	"	"	"	"	"	"	
Bromomethane	ND	0.0048	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0048	"	"	"	"	"	"	
Chlorobenzene	ND	0.0048	"	"	"	"	"	"	
Chloroethane	ND	0.0048	"	"	"	"	"	"	
Chloroform	ND	0.0048	"	"	"	"	"	"	
Chloromethane	ND	0.0048	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0095	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0048	"	"	"	"	"	"	
Dibromomethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-1
T194052-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0048	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0048	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0048	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0048	"	"	"	"	"	"	
Methylene chloride	ND	0.0048	"	"	"	"	"	"	
Naphthalene	ND	0.0048	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0048	"	"	"	"	"	"	
Styrene	ND	0.0048	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0048	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
Vinyl chloride	ND	0.0048	"	"	"	"	"	"	
Benzene	ND	0.0048	"	"	"	"	"	"	
Toluene	ND	0.0048	"	"	"	"	"	"	
Ethylbenzene	ND	0.0048	"	"	"	"	"	"	
m,p-Xylene	ND	0.0095	"	"	"	"	"	"	
o-Xylene	ND	0.0048	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.6 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-1
T194052-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-5
T194052-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		73.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/26/19	"	
Arsenic	ND	5.0	"	"	"	"	11/26/19	"	
Barium	36	1.0	"	"	"	"	11/26/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	9.9	2.0	"	"	"	"	11/26/19	"	
Cobalt	5.4	2.0	"	"	"	"	11/26/19	"	
Copper	10	1.0	"	"	"	"	11/26/19	"	
Lead	4.2	3.0	"	"	"	"	11/26/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.1	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	11/26/19	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project Number: SM19-259094
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12/13/19 15:58

SB6N2-5
T194052-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0054	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0054	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0054	"	"	"	"	"	"	
Bromoform	ND	0.0054	"	"	"	"	"	"	
Bromomethane	ND	0.0054	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0054	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0054	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0054	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0054	"	"	"	"	"	"	
Chlorobenzene	ND	0.0054	"	"	"	"	"	"	
Chloroethane	ND	0.0054	"	"	"	"	"	"	
Chloroform	ND	0.0054	"	"	"	"	"	"	
Chloromethane	ND	0.0054	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0054	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0054	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0054	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.011	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0054	"	"	"	"	"	"	
Dibromomethane	ND	0.0054	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0054	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0054	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0054	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0054	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0054	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0054	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0054	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0054	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0054	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0054	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-5
T194052-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0054	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0054	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0054	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0054	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0054	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0054	"	"	"	"	"	"	
Methylene chloride	ND	0.0054	"	"	"	"	"	"	
Naphthalene	ND	0.0054	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0054	"	"	"	"	"	"	
Styrene	ND	0.0054	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0054	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0054	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0032	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0054	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0054	"	"	"	"	"	"	
Trichloroethene	ND	0.0032	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0054	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0054	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0054	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0054	"	"	"	"	"	"	
Vinyl chloride	ND	0.0054	"	"	"	"	"	"	
Benzene	ND	0.0054	"	"	"	"	"	"	
Toluene	ND	0.0054	"	"	"	"	"	"	
Ethylbenzene	ND	0.0054	"	"	"	"	"	"	
m,p-Xylene	ND	0.011	"	"	"	"	"	"	
o-Xylene	ND	0.0054	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.9 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-5
T194052-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-10
T194052-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		109 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	30	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	8.2	2.0	"	"	"	"	"	"	
Cobalt	7.1	2.0	"	"	"	"	"	"	
Copper	6.1	1.0	"	"	"	"	"	"	
Lead	3.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	30	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-10
T194052-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0092	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-10
T194052-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0092	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.5 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N2-10
T194052-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-1
T194052-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	48	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		108 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	160	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.6	2.0	"	"	"	"	"	"	
Copper	8.9	1.0	"	"	"	"	"	"	
Lead	5.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	38	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-1
T194052-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0093	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-1
T194052-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0093	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.4 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-1
T194052-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-5
T194052-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	19	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		103 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	160	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	8.6	2.0	"	"	"	"	"	"	
Cobalt	5.6	2.0	"	"	"	"	"	"	
Copper	5.4	1.0	"	"	"	"	"	"	
Lead	3.9	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	30	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-5
T194052-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0059	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0059	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0059	"	"	"	"	"	"	
Bromoform	ND	0.0059	"	"	"	"	"	"	
Bromomethane	ND	0.0059	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0059	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0059	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0059	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0059	"	"	"	"	"	"	
Chlorobenzene	ND	0.0059	"	"	"	"	"	"	
Chloroethane	ND	0.0059	"	"	"	"	"	"	
Chloroform	ND	0.0059	"	"	"	"	"	"	
Chloromethane	ND	0.0059	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0059	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0059	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0059	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.012	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0059	"	"	"	"	"	"	
Dibromomethane	ND	0.0059	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0059	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0059	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0059	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0059	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0059	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0059	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0059	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0059	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0059	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0059	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-5
T194052-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0059	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0059	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0059	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0059	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0059	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0059	"	"	"	"	"	"	
Methylene chloride	ND	0.0059	"	"	"	"	"	"	
Naphthalene	ND	0.0059	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0059	"	"	"	"	"	"	
Styrene	ND	0.0059	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0059	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0059	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0036	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0059	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0059	"	"	"	"	"	"	
Trichloroethene	ND	0.0036	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0059	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0059	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0059	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0059	"	"	"	"	"	"	
Vinyl chloride	ND	0.0059	"	"	"	"	"	"	
Benzene	ND	0.0059	"	"	"	"	"	"	
Toluene	ND	0.0059	"	"	"	"	"	"	
Ethylbenzene	ND	0.0059	"	"	"	"	"	"	
m,p-Xylene	ND	0.012	"	"	"	"	"	"	
o-Xylene	ND	0.0059	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-5
T194052-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-10
T194052-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		104 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	26	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.2	2.0	"	"	"	"	"	"	
Cobalt	4.5	2.0	"	"	"	"	"	"	
Copper	9.1	1.0	"	"	"	"	"	"	
Lead	3.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	"	"	
Zinc	22	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project Manager: David Horrell

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SB6N1-10
T194052-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0086	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
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SB6N1-10
T194052-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0086	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.1 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6N1-10
T194052-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E1-1
T194052-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	19	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		107 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	180	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	7.4	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	5.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	32	5.0	"	"	"	"	"	"	
Zinc	42	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 15:58

SB6E1-1
T194052-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0049	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0049	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0049	"	"	"	"	"	"	
Bromoform	ND	0.0049	"	"	"	"	"	"	
Bromomethane	ND	0.0049	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0049	"	"	"	"	"	"	
Chlorobenzene	ND	0.0049	"	"	"	"	"	"	
Chloroethane	ND	0.0049	"	"	"	"	"	"	
Chloroform	ND	0.0049	"	"	"	"	"	"	
Chloromethane	ND	0.0049	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0098	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0049	"	"	"	"	"	"	
Dibromomethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E1-1
T194052-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0049	mg/kg	1	9112223	11/22/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0049	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0049	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0049	"	"	"	"	"	"	
Methylene chloride	ND	0.0049	"	"	"	"	"	"	
Naphthalene	ND	0.0049	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0049	"	"	"	"	"	"	
Styrene	ND	0.0049	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0049	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
Vinyl chloride	ND	0.0049	"	"	"	"	"	"	
Benzene	ND	0.0049	"	"	"	"	"	"	
Toluene	ND	0.0049	"	"	"	"	"	"	
Ethylbenzene	ND	0.0049	"	"	"	"	"	"	
m,p-Xylene	ND	0.0098	"	"	"	"	"	"	
o-Xylene	ND	0.0049	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.7 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E1-1
T194052-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E1-5
T194052-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	16	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		107 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	190	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	7.9	1.0	"	"	"	"	"	"	
Lead	4.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	36	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E1-5
T194052-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0060	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0060	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0060	"	"	"	"	"	"	
Bromoform	ND	0.0060	"	"	"	"	"	"	
Bromomethane	ND	0.0060	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0060	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0060	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0060	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0060	"	"	"	"	"	"	
Chlorobenzene	ND	0.0060	"	"	"	"	"	"	
Chloroethane	ND	0.0060	"	"	"	"	"	"	
Chloroform	ND	0.0060	"	"	"	"	"	"	
Chloromethane	ND	0.0060	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0060	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0060	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0060	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.012	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0060	"	"	"	"	"	"	
Dibromomethane	ND	0.0060	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0060	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0060	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0060	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0060	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0060	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0060	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0060	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0060	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0060	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0060	"	"	"	"	"	"	

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Project Manager: David Horrell

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SB6E1-5
T194052-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0060	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0060	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0060	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0060	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0060	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0060	"	"	"	"	"	"	
Methylene chloride	ND	0.0060	"	"	"	"	"	"	
Naphthalene	ND	0.0060	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0060	"	"	"	"	"	"	
Styrene	ND	0.0060	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0060	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0060	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0036	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0060	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0060	"	"	"	"	"	"	
Trichloroethene	ND	0.0036	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0060	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0060	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0060	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0060	"	"	"	"	"	"	
Vinyl chloride	ND	0.0060	"	"	"	"	"	"	
Benzene	ND	0.0060	"	"	"	"	"	"	
Toluene	ND	0.0060	"	"	"	"	"	"	
Ethylbenzene	ND	0.0060	"	"	"	"	"	"	
m,p-Xylene	ND	0.012	"	"	"	"	"	"	
o-Xylene	ND	0.0060	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	77.8-142		"	"	"	"	

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Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E1-5
T194052-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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SB6E1-10
T194052-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 105 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/26/19	"	
Arsenic	ND	5.0	"	"	"	"	11/26/19	"	
Barium	23	1.0	"	"	"	"	11/26/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	9.5	2.0	"	"	"	"	11/26/19	"	
Cobalt	4.8	2.0	"	"	"	"	11/26/19	"	
Copper	8.9	1.0	"	"	"	"	11/26/19	"	
Lead	4.6	3.0	"	"	"	"	11/26/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	11/26/19	"	
Zinc	24	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SB6E1-10
T194052-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0049	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0049	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0049	"	"	"	"	"	"	
Bromoform	ND	0.0049	"	"	"	"	"	"	
Bromomethane	ND	0.0049	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0049	"	"	"	"	"	"	
Chlorobenzene	ND	0.0049	"	"	"	"	"	"	
Chloroethane	ND	0.0049	"	"	"	"	"	"	
Chloroform	ND	0.0049	"	"	"	"	"	"	
Chloromethane	ND	0.0049	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0098	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0049	"	"	"	"	"	"	
Dibromomethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	

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Project Manager: David Horrell

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12/13/19 15:58

SB6E1-10
T194052-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0049	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0049	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0049	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0049	"	"	"	"	"	"	
Methylene chloride	ND	0.0049	"	"	"	"	"	"	
Naphthalene	ND	0.0049	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0049	"	"	"	"	"	"	
Styrene	ND	0.0049	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
Trichloroethene	ND	0.0030	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0049	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
Vinyl chloride	ND	0.0049	"	"	"	"	"	"	
Benzene	ND	0.0049	"	"	"	"	"	"	
Toluene	ND	0.0049	"	"	"	"	"	"	
Ethylbenzene	ND	0.0049	"	"	"	"	"	"	
m,p-Xylene	ND	0.0098	"	"	"	"	"	"	
o-Xylene	ND	0.0049	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 15:58

SB6E1-10
T194052-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E2-1
T194052-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	59	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		104 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	180	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	6.5	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	9.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	63	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

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SB6E2-1
T194052-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0064	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0064	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0064	"	"	"	"	"	"	
Bromoform	ND	0.0064	"	"	"	"	"	"	
Bromomethane	ND	0.0064	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0064	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0064	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0064	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0064	"	"	"	"	"	"	
Chlorobenzene	ND	0.0064	"	"	"	"	"	"	
Chloroethane	ND	0.0064	"	"	"	"	"	"	
Chloroform	ND	0.0064	"	"	"	"	"	"	
Chloromethane	ND	0.0064	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0064	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0064	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0064	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.013	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0064	"	"	"	"	"	"	
Dibromomethane	ND	0.0064	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0064	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0064	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0064	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0064	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0064	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0064	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0064	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0064	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0064	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0064	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0064	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0064	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E2-1
T194052-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0064	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0064	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0064	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0064	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0064	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0064	"	"	"	"	"	"	
Methylene chloride	ND	0.0064	"	"	"	"	"	"	
Naphthalene	ND	0.0064	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0064	"	"	"	"	"	"	
Styrene	ND	0.0064	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0064	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0064	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0039	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0064	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0064	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0064	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0064	"	"	"	"	"	"	
Trichloroethene	ND	0.0039	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0064	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0064	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0064	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0064	"	"	"	"	"	"	
Vinyl chloride	ND	0.0064	"	"	"	"	"	"	
Benzene	ND	0.0064	"	"	"	"	"	"	
Toluene	ND	0.0064	"	"	"	"	"	"	
Ethylbenzene	ND	0.0064	"	"	"	"	"	"	
m,p-Xylene	ND	0.013	"	"	"	"	"	"	
o-Xylene	ND	0.0064	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

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SB6E2-1
T194052-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
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Reported:
12/13/19 15:58

SB6E2-5
T194052-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		104 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	32	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	5.4	2.0	"	"	"	"	"	"	
Copper	9.3	1.0	"	"	"	"	"	"	
Lead	4.1	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SB6E2-5
T194052-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0038	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0038	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0038	"	"	"	"	"	"	
Bromoform	ND	0.0038	"	"	"	"	"	"	
Bromomethane	ND	0.0038	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0038	"	"	"	"	"	"	
Chlorobenzene	ND	0.0038	"	"	"	"	"	"	
Chloroethane	ND	0.0038	"	"	"	"	"	"	
Chloroform	ND	0.0038	"	"	"	"	"	"	
Chloromethane	ND	0.0038	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0076	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0038	"	"	"	"	"	"	
Dibromomethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E2-5
T194052-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0038	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0038	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0038	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0038	"	"	"	"	"	"	
Methylene chloride	ND	0.0038	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0038	"	"	"	"	"	"	
Styrene	ND	0.0038	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0038	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
Vinyl chloride	ND	0.0038	"	"	"	"	"	"	
Benzene	ND	0.0038	"	"	"	"	"	"	
Toluene	ND	0.0038	"	"	"	"	"	"	
Ethylbenzene	ND	0.0038	"	"	"	"	"	"	
m,p-Xylene	ND	0.0076	"	"	"	"	"	"	
o-Xylene	ND	0.0038	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 15:58

SB6E2-5
T194052-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E2-10
T194052-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		107 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	30	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	8.7	2.0	"	"	"	"	"	"	
Cobalt	5.4	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	3.8	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

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SB6E2-10
T194052-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0048	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0048	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0048	"	"	"	"	"	"	
Bromoform	ND	0.0048	"	"	"	"	"	"	
Bromomethane	ND	0.0048	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0048	"	"	"	"	"	"	
Chlorobenzene	ND	0.0048	"	"	"	"	"	"	
Chloroethane	ND	0.0048	"	"	"	"	"	"	
Chloroform	ND	0.0048	"	"	"	"	"	"	
Chloromethane	ND	0.0048	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0096	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0048	"	"	"	"	"	"	
Dibromomethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E2-10
T194052-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0048	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0048	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0048	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0048	"	"	"	"	"	"	
Methylene chloride	ND	0.0048	"	"	"	"	"	"	
Naphthalene	ND	0.0048	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0048	"	"	"	"	"	"	
Styrene	ND	0.0048	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0048	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
Vinyl chloride	ND	0.0048	"	"	"	"	"	"	
Benzene	ND	0.0048	"	"	"	"	"	"	
Toluene	ND	0.0048	"	"	"	"	"	"	
Ethylbenzene	ND	0.0048	"	"	"	"	"	"	
m,p-Xylene	ND	0.0096	"	"	"	"	"	"	
o-Xylene	ND	0.0048	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6E2-10
T194052-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-1
T194052-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	46	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		114 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	150	5.0	"	5	"	"	11/26/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	6.3	2.0	"	"	"	"	"	"	
Copper	16	1.0	"	"	"	"	"	"	
Lead	11	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	29	5.0	"	"	"	"	"	"	
Zinc	62	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-1
T194052-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0089	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-1
T194052-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0089	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-1
T194052-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-5
T194052-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 104 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/26/19	"	
Arsenic	ND	5.0	"	"	"	"	11/26/19	"	
Barium	32	1.0	"	"	"	"	11/26/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	9.5	2.0	"	"	"	"	11/26/19	"	
Cobalt	5.0	2.0	"	"	"	"	11/26/19	"	
Copper	8.1	1.0	"	"	"	"	11/26/19	"	
Lead	3.9	3.0	"	"	"	"	11/26/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	20	5.0	"	"	"	"	11/26/19	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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12/13/19 15:58

SB6S1-5
T194052-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0051	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0051	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0051	"	"	"	"	"	"	
Bromoform	ND	0.0051	"	"	"	"	"	"	
Bromomethane	ND	0.0051	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0051	"	"	"	"	"	"	
Chlorobenzene	ND	0.0051	"	"	"	"	"	"	
Chloroethane	ND	0.0051	"	"	"	"	"	"	
Chloroform	ND	0.0051	"	"	"	"	"	"	
Chloromethane	ND	0.0051	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0051	"	"	"	"	"	"	
Dibromomethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-5
T194052-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0051	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0051	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0051	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0051	"	"	"	"	"	"	
Methylene chloride	ND	0.0051	"	"	"	"	"	"	
Naphthalene	ND	0.0051	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0051	"	"	"	"	"	"	
Styrene	ND	0.0051	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
Trichloroethene	ND	0.0030	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0051	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
Vinyl chloride	ND	0.0051	"	"	"	"	"	"	
Benzene	ND	0.0051	"	"	"	"	"	"	
Toluene	ND	0.0051	"	"	"	"	"	"	
Ethylbenzene	ND	0.0051	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0051	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-5
T194052-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-10
T194052-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	6.3	5.0	"	"	"	"	"	"	
Barium	24	1.0	"	"	"	"	"	"	
Beryllium	1.5	1.0	"	"	"	"	11/26/19	"	
Cadmium	2.1	2.0	"	"	"	"	11/26/19	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.5	2.0	"	"	"	"	"	"	
Copper	9.7	1.0	"	"	"	"	"	"	
Lead	5.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	19	5.0	"	"	"	"	"	"	
Zinc	25	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-10
T194052-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0047	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0047	"	"	"	"	"	"	
Bromoform	ND	0.0047	"	"	"	"	"	"	
Bromomethane	ND	0.0047	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0047	"	"	"	"	"	"	
Chlorobenzene	ND	0.0047	"	"	"	"	"	"	
Chloroethane	ND	0.0047	"	"	"	"	"	"	
Chloroform	ND	0.0047	"	"	"	"	"	"	
Chloromethane	ND	0.0047	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0094	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0047	"	"	"	"	"	"	
Dibromomethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-10
T194052-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0047	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0047	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0047	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0047	"	"	"	"	"	"	
Methylene chloride	ND	0.0047	"	"	"	"	"	"	
Naphthalene	ND	0.0047	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0047	"	"	"	"	"	"	
Styrene	ND	0.0047	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0047	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
Vinyl chloride	ND	0.0047	"	"	"	"	"	"	
Benzene	ND	0.0047	"	"	"	"	"	"	
Toluene	ND	0.0047	"	"	"	"	"	"	
Ethylbenzene	ND	0.0047	"	"	"	"	"	"	
m,p-Xylene	ND	0.0094	"	"	"	"	"	"	
o-Xylene	ND	0.0047	"	"	"	"	"	"	
Surrogate: Toluene-d8		251 %	76.1-127		"	"	"	"	AO-1
Surrogate: 4-Bromofluorobenzene		297 %	85.9-114		"	"	"	"	AO-1
Surrogate: Dibromofluoromethane		299 %	77.8-142		"	"	"	"	AO-1

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S1-10
T194052-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-1
T194052-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	54	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		110 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	11	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	64	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-1
T194052-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0047	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0047	"	"	"	"	"	"	
Bromoform	ND	0.0047	"	"	"	"	"	"	
Bromomethane	ND	0.0047	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0047	"	"	"	"	"	"	
Chlorobenzene	ND	0.0047	"	"	"	"	"	"	
Chloroethane	ND	0.0047	"	"	"	"	"	"	
Chloroform	ND	0.0047	"	"	"	"	"	"	
Chloromethane	ND	0.0047	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0095	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0047	"	"	"	"	"	"	
Dibromomethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-1
T194052-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0047	mg/kg	1	9112220	11/22/19	12/04/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0047	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0047	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0047	"	"	"	"	"	"	
Methylene chloride	ND	0.0047	"	"	"	"	"	"	
Naphthalene	ND	0.0047	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0047	"	"	"	"	"	"	
Styrene	ND	0.0047	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0047	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
Vinyl chloride	ND	0.0047	"	"	"	"	"	"	
Benzene	ND	0.0047	"	"	"	"	"	"	
Toluene	ND	0.0047	"	"	"	"	"	"	
Ethylbenzene	ND	0.0047	"	"	"	"	"	"	
m,p-Xylene	ND	0.0095	"	"	"	"	"	"	
o-Xylene	ND	0.0047	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-1
T194052-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-5
T194052-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		102 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	32	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	11/26/19	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	8.6	2.0	"	"	"	"	"	"	
Cobalt	4.4	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	3.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	23	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-5
T194052-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0039	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0039	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0039	"	"	"	"	"	"	
Bromoform	ND	0.0039	"	"	"	"	"	"	
Bromomethane	ND	0.0039	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0039	"	"	"	"	"	"	
Chlorobenzene	ND	0.0039	"	"	"	"	"	"	
Chloroethane	ND	0.0039	"	"	"	"	"	"	
Chloroform	ND	0.0039	"	"	"	"	"	"	
Chloromethane	ND	0.0039	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0078	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0039	"	"	"	"	"	"	
Dibromomethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-5
T194052-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0039	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0039	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0039	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0039	"	"	"	"	"	"	
Methylene chloride	ND	0.0039	"	"	"	"	"	"	
Naphthalene	ND	0.0039	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0039	"	"	"	"	"	"	
Styrene	ND	0.0039	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0039	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
Vinyl chloride	ND	0.0039	"	"	"	"	"	"	
Benzene	ND	0.0039	"	"	"	"	"	"	
Toluene	ND	0.0039	"	"	"	"	"	"	
Ethylbenzene	ND	0.0039	"	"	"	"	"	"	
m,p-Xylene	ND	0.0078	"	"	"	"	"	"	
o-Xylene	ND	0.0039	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		99.6 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-5
T194052-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-10
T194052-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.7	5.0	"	"	"	"	"	"	
Barium	26	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	5.3	2.0	"	"	"	"	"	"	
Copper	9.6	1.0	"	"	"	"	"	"	
Lead	3.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	20	5.0	"	"	"	"	"	"	
Zinc	24	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SB6S2-10
T194052-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0090	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

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Project Manager: David Horrell

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SB6S2-10
T194052-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0090	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6S2-10
T194052-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-1
T194052-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	24	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		110 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/26/19	"	
Arsenic	ND	5.0	"	"	"	"	11/26/19	"	
Barium	57	1.0	"	"	"	"	11/26/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/26/19	"	
Chromium	11	2.0	"	"	"	"	11/26/19	"	
Cobalt	6.1	2.0	"	"	"	"	11/26/19	"	
Copper	9.8	1.0	"	"	"	"	11/26/19	"	
Lead	12	3.0	"	"	"	"	11/26/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	11/26/19	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	50	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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SB6W1-1
T194052-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0051	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0051	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0051	"	"	"	"	"	"	
Bromoform	ND	0.0051	"	"	"	"	"	"	
Bromomethane	ND	0.0051	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0051	"	"	"	"	"	"	
Chlorobenzene	ND	0.0051	"	"	"	"	"	"	
Chloroethane	ND	0.0051	"	"	"	"	"	"	
Chloroform	ND	0.0051	"	"	"	"	"	"	
Chloromethane	ND	0.0051	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0051	"	"	"	"	"	"	
Dibromomethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-1
T194052-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0051	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0051	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0051	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0051	"	"	"	"	"	"	
Methylene chloride	ND	0.0051	"	"	"	"	"	"	
Naphthalene	ND	0.0051	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0051	"	"	"	"	"	"	
Styrene	ND	0.0051	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0031	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
Trichloroethene	ND	0.0031	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0051	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
Vinyl chloride	ND	0.0051	"	"	"	"	"	"	
Benzene	ND	0.0051	"	"	"	"	"	"	
Toluene	ND	0.0051	"	"	"	"	"	"	
Ethylbenzene	ND	0.0051	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0051	"	"	"	"	"	"	
Surrogate: Toluene-d8		243 %	76.1-127		"	"	"	"	AO-1
Surrogate: 4-Bromofluorobenzene		245 %	85.9-114		"	"	"	"	AO-1
Surrogate: Dibromofluoromethane		283 %	77.8-142		"	"	"	"	AO-1

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-1
T194052-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-5
T194052-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112208	11/22/19	11/27/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	17	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	9112522	11/25/19	11/26/19	EPA 6010b	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	33	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	11/26/19	"	
Cadmium	ND	1.8	"	"	"	"	11/26/19	"	
Chromium	10	1.8	"	"	"	"	"	"	
Cobalt	4.5	1.8	"	"	"	"	"	"	
Copper	7.2	0.91	"	"	"	"	"	"	
Lead	2.8	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	5.9	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Vanadium	18	4.5	"	"	"	"	"	"	
Zinc	23	0.91	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112215	11/22/19	11/25/19	EPA 7471A Soil	
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Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-5
T194052-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0049	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0049	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0049	"	"	"	"	"	"	
Bromoform	ND	0.0049	"	"	"	"	"	"	
Bromomethane	ND	0.0049	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0049	"	"	"	"	"	"	
Chlorobenzene	ND	0.0049	"	"	"	"	"	"	
Chloroethane	ND	0.0049	"	"	"	"	"	"	
Chloroform	ND	0.0049	"	"	"	"	"	"	
Chloromethane	ND	0.0049	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0098	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0049	"	"	"	"	"	"	
Dibromomethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	

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Project Number: SM19-259094
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Reported:
12/13/19 15:58

SB6W1-5
T194052-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0049	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0049	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0049	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0049	"	"	"	"	"	"	
Methylene chloride	ND	0.0049	"	"	"	"	"	"	
Naphthalene	ND	0.0049	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0049	"	"	"	"	"	"	
Styrene	ND	0.0049	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0049	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
Vinyl chloride	ND	0.0049	"	"	"	"	"	"	
Benzene	ND	0.0049	"	"	"	"	"	"	
Toluene	ND	0.0049	"	"	"	"	"	"	
Ethylbenzene	ND	0.0049	"	"	"	"	"	"	
m,p-Xylene	ND	0.0098	"	"	"	"	"	"	
o-Xylene	ND	0.0049	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		99.7 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-5
T194052-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
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Reported:
12/13/19 15:58

SB6W1-10
T194052-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		81.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/25/19	"	
Arsenic	ND	5.0	"	"	"	"	11/25/19	"	
Barium	26	1.0	"	"	"	"	11/25/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	9.4	2.0	"	"	"	"	11/25/19	"	
Cobalt	4.0	2.0	"	"	"	"	11/25/19	"	
Copper	9.0	1.0	"	"	"	"	11/25/19	"	
Lead	4.3	3.0	"	"	"	"	11/25/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	16	5.0	"	"	"	"	11/25/19	"	
Zinc	20	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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SB6W1-10
T194052-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0037	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0037	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0037	"	"	"	"	"	"	
Bromoform	ND	0.0037	"	"	"	"	"	"	
Bromomethane	ND	0.0037	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0037	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0037	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0037	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0037	"	"	"	"	"	"	
Chlorobenzene	ND	0.0037	"	"	"	"	"	"	
Chloroethane	ND	0.0037	"	"	"	"	"	"	
Chloroform	ND	0.0037	"	"	"	"	"	"	
Chloromethane	ND	0.0037	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0037	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0037	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0037	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0073	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0037	"	"	"	"	"	"	
Dibromomethane	ND	0.0037	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0037	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0037	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0037	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0037	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0037	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0037	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0037	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0037	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0037	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0037	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0037	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0037	"	"	"	"	"	"	

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Mike Jaroudi, Project Manager



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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-10
T194052-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0037	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0037	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0037	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0037	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0037	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0037	"	"	"	"	"	"	
Methylene chloride	ND	0.0037	"	"	"	"	"	"	
Naphthalene	ND	0.0037	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0037	"	"	"	"	"	"	
Styrene	ND	0.0037	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0037	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0037	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0022	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0037	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0037	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0037	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0037	"	"	"	"	"	"	
Trichloroethene	ND	0.0022	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0037	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0037	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0037	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0037	"	"	"	"	"	"	
Vinyl chloride	ND	0.0037	"	"	"	"	"	"	
Benzene	ND	0.0037	"	"	"	"	"	"	
Toluene	ND	0.0037	"	"	"	"	"	"	
Ethylbenzene	ND	0.0037	"	"	"	"	"	"	
m,p-Xylene	ND	0.0073	"	"	"	"	"	"	
o-Xylene	ND	0.0037	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.7 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W1-10
T194052-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W2-1
T194052-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	14	10	"	"	"	"	"	"	
C29-C40 (MORO)	100	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		78.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	51	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	11/25/19	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	5.4	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	14	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	50	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project Manager: David Horrell

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12/13/19 15:58

SB6W2-1
T194052-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0057	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0057	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0057	"	"	"	"	"	"	
Bromoform	ND	0.0057	"	"	"	"	"	"	
Bromomethane	ND	0.0057	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0057	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0057	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0057	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0057	"	"	"	"	"	"	
Chlorobenzene	ND	0.0057	"	"	"	"	"	"	
Chloroethane	ND	0.0057	"	"	"	"	"	"	
Chloroform	ND	0.0057	"	"	"	"	"	"	
Chloromethane	ND	0.0057	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0057	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0057	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0057	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.011	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0057	"	"	"	"	"	"	
Dibromomethane	ND	0.0057	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0057	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0057	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0057	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0057	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0057	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0057	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0057	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0057	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0057	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0057	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0057	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0057	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W2-1
T194052-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0057	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0057	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0057	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0057	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0057	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0057	"	"	"	"	"	"	
Methylene chloride	ND	0.0057	"	"	"	"	"	"	
Naphthalene	ND	0.0057	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0057	"	"	"	"	"	"	
Styrene	ND	0.0057	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0057	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0057	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0034	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0057	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0057	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0057	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0057	"	"	"	"	"	"	
Trichloroethene	ND	0.0034	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0057	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0057	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0057	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0057	"	"	"	"	"	"	
Vinyl chloride	ND	0.0057	"	"	"	"	"	"	
Benzene	ND	0.0057	"	"	"	"	"	"	
Toluene	ND	0.0057	"	"	"	"	"	"	
Ethylbenzene	ND	0.0057	"	"	"	"	"	"	
m,p-Xylene	ND	0.011	"	"	"	"	"	"	
o-Xylene	ND	0.0057	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	77.8-142		"	"	"	"	

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Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6W2-1
T194052-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6-W2-5
T194052-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		80.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	41	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	6.4	2.0	"	"	"	"	"	"	
Copper	9.0	1.0	"	"	"	"	"	"	
Lead	4.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6-W2-5
T194052-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0041	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0041	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0041	"	"	"	"	"	"	
Bromoform	ND	0.0041	"	"	"	"	"	"	
Bromomethane	ND	0.0041	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0041	"	"	"	"	"	"	
Chlorobenzene	ND	0.0041	"	"	"	"	"	"	
Chloroethane	ND	0.0041	"	"	"	"	"	"	
Chloroform	ND	0.0041	"	"	"	"	"	"	
Chloromethane	ND	0.0041	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0082	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0041	"	"	"	"	"	"	
Dibromomethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	

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Project Manager: David Horrell

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12/13/19 15:58

SB6-W2-5
T194052-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0041	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0041	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0041	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0041	"	"	"	"	"	"	
Methylene chloride	ND	0.0041	"	"	"	"	"	"	
Naphthalene	ND	0.0041	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0041	"	"	"	"	"	"	
Styrene	ND	0.0041	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0041	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
Vinyl chloride	ND	0.0041	"	"	"	"	"	"	
Benzene	ND	0.0041	"	"	"	"	"	"	
Toluene	ND	0.0041	"	"	"	"	"	"	
Ethylbenzene	ND	0.0041	"	"	"	"	"	"	
m,p-Xylene	ND	0.0082	"	"	"	"	"	"	
o-Xylene	ND	0.0041	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	77.8-142		"	"	"	"	

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Project Manager: David Horrell

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12/13/19 15:58

SB6-W2-5
T194052-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6-W2-10
T194052-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		79.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/25/19	"	
Arsenic	ND	5.0	"	"	"	"	11/25/19	"	
Barium	24	1.0	"	"	"	"	11/25/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	9.0	2.0	"	"	"	"	11/25/19	"	
Cobalt	4.9	2.0	"	"	"	"	11/25/19	"	
Copper	8.9	1.0	"	"	"	"	11/25/19	"	
Lead	4.2	3.0	"	"	"	"	11/25/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	11/25/19	"	
Zinc	24	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6-W2-10
T194052-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0083	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6-W2-10
T194052-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0083	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.2 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB6-W2-10
T194052-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-1
T194052-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	100	mg/kg	10	9121124	12/11/19	12/11/19	EPA 8015B	O-05
C13-C28 (DRO)	ND	100	"	"	"	"	"	"	O-05
C29-C40 (MORO)	630	100	"	"	"	"	"	"	O-05
Surrogate: <i>p</i> -Terphenyl		80.3 %	65-135		"	"	"	"	O-05

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9121118	12/11/19	12/12/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	87	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	2.0	2.0	"	"	"	"	"	"	
Chromium	90	2.0	"	"	"	"	"	"	
Cobalt	6.2	2.0	"	"	"	"	"	"	
Copper	30	1.0	"	"	"	"	"	"	
Lead	29	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	15	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	48	5.0	"	"	"	"	"	"	
Zinc	180	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9121117	12/11/19	12/12/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-1
T194052-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	5035R, O-05
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Bromoform	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Bromomethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Chloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Chloroform	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Chloromethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2-Dibromo-3-chloropropane	ND	0.0091	"	"	"	"	"	"	5035R, O-05
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Dibromomethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	5035R, O-05

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-1
T194052-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	5035R, O-05
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Methylene chloride	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Naphthalene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Styrene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	5035R, O-05
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Trichloroethene	ND	0.0027	"	"	"	"	"	"	5035R, O-05
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Benzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Toluene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
m,p-Xylene	ND	0.0091	"	"	"	"	"	"	5035R, O-05
o-Xylene	ND	0.0045	"	"	"	"	"	"	5035R, O-05
Tert-amyl methyl ether	ND	0.018	"	"	"	"	"	"	5035R, O-05
Tert-butyl alcohol	ND	0.045	"	"	"	"	"	"	5035R, O-05
Di-isopropyl ether	ND	0.018	"	"	"	"	"	"	5035R, O-05

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-1
T194052-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	0.018	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	5035R, O-05
Methyl tert-butyl ether	ND	0.018	"	"	"	"	"	"	5035R, O-05
Surrogate: Toluene-d8		94.1 %	76.1-127		"	"	"	"	O-05
Surrogate: 4-Bromofluorobenzene		95.0 %	85.9-114		"	"	"	"	O-05
Surrogate: Dibromofluoromethane		181 %	77.8-142		"	"	"	"	O-05

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-5
T194052-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9121124	12/11/19	12/11/19	EPA 8015B	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		73.4 %		65-135	"	"	"	"	O-05

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9121118	12/11/19	12/12/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/12/19	"	
Arsenic	ND	5.0	"	"	"	"	12/12/19	"	
Barium	34	1.0	"	"	"	"	12/12/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/12/19	"	
Chromium	9.9	2.0	"	"	"	"	"	"	
Cobalt	5.3	2.0	"	"	"	"	"	"	
Copper	8.5	1.0	"	"	"	"	12/12/19	"	
Lead	ND	3.0	"	"	"	"	12/12/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	19	5.0	"	"	"	"	12/12/19	"	
Zinc	25	1.0	"	"	"	"	12/12/19	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9121117	12/11/19	12/12/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-5
T194052-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	5035R, O-05
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Bromoform	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Bromomethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Chloroethane	ND	0.0044	"	"	"	"	"	"	O-05, 5035R
Chloroform	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Chloromethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	O-05, 5035R
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2-Dibromo-3-chloropropane	ND	0.0089	"	"	"	"	"	"	O-05, 5035R
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Dibromomethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	5035R, O-05

SunStar Laboratories, Inc.



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-5
T194052-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	5035R, O-05
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Methylene chloride	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Naphthalene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Styrene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	5035R, O-05
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	O-05, 5035R
Trichloroethene	ND	0.0027	"	"	"	"	"	"	5035R, O-05
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Benzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Toluene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
m,p-Xylene	ND	0.0089	"	"	"	"	"	"	5035R, O-05
o-Xylene	ND	0.0044	"	"	"	"	"	"	5035R, O-05
Tert-amyl methyl ether	ND	0.018	"	"	"	"	"	"	5035R, O-05
Tert-butyl alcohol	ND	0.044	"	"	"	"	"	"	5035R, O-05
Di-isopropyl ether	ND	0.018	"	"	"	"	"	"	5035R, O-05

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-5
T194052-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	0.018	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	5035R, O-05
Methyl tert-butyl ether	ND	0.018	"	"	"	"	"	"	5035R, O-05
Surrogate: Toluene-d8		95.0 %	76.1-127		"	"	"	"	O-05
Surrogate: 4-Bromofluorobenzene		97.0 %	85.9-114		"	"	"	"	O-05
Surrogate: Dibromofluoromethane		111 %	77.8-142		"	"	"	"	O-05

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-10
T194052-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9121124	12/11/19	12/11/19	EPA 8015B	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		74.3 %	65-135		"	"	"	"	O-05

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9121118	12/11/19	12/12/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	23	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/12/19	"	
Cadmium	ND	2.0	"	"	"	"	12/12/19	"	
Chromium	8.0	2.0	"	"	"	"	"	"	
Cobalt	4.5	2.0	"	"	"	"	"	"	
Copper	9.8	1.0	"	"	"	"	"	"	
Lead	3.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	24	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9121117	12/11/19	12/12/19	EPA 7471A Soil	
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12/13/19 15:58

SB8-N2-10
T194052-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0052	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	O-05
Bromochloromethane	ND	0.0052	"	"	"	"	"	"	O-05
Bromodichloromethane	ND	0.0052	"	"	"	"	"	"	O-05
Bromoform	ND	0.0052	"	"	"	"	"	"	O-05
Bromomethane	ND	0.0052	"	"	"	"	"	"	O-05
n-Butylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
sec-Butylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
tert-Butylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
Carbon tetrachloride	ND	0.0052	"	"	"	"	"	"	O-05
Chlorobenzene	ND	0.0052	"	"	"	"	"	"	O-05
Chloroethane	ND	0.0052	"	"	"	"	"	"	O-05
Chloroform	ND	0.0052	"	"	"	"	"	"	O-05
Chloromethane	ND	0.0052	"	"	"	"	"	"	O-05
2-Chlorotoluene	ND	0.0052	"	"	"	"	"	"	O-05
4-Chlorotoluene	ND	0.0052	"	"	"	"	"	"	O-05
Dibromochloromethane	ND	0.0052	"	"	"	"	"	"	O-05
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	O-05
1,2-Dibromoethane (EDB)	ND	0.0052	"	"	"	"	"	"	O-05
Dibromomethane	ND	0.0052	"	"	"	"	"	"	O-05
1,2-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	O-05
1,3-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	O-05
1,4-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	O-05
Dichlorodifluoromethane	ND	0.0052	"	"	"	"	"	"	O-05
1,1-Dichloroethane	ND	0.0052	"	"	"	"	"	"	O-05
1,2-Dichloroethane	ND	0.0052	"	"	"	"	"	"	O-05
1,1-Dichloroethene	ND	0.0052	"	"	"	"	"	"	O-05
cis-1,2-Dichloroethene	ND	0.0052	"	"	"	"	"	"	O-05
trans-1,2-Dichloroethene	ND	0.0052	"	"	"	"	"	"	O-05
1,2-Dichloropropane	ND	0.0052	"	"	"	"	"	"	O-05
1,3-Dichloropropane	ND	0.0052	"	"	"	"	"	"	O-05
2,2-Dichloropropane	ND	0.0052	"	"	"	"	"	"	O-05

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N2-10
T194052-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0052	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	O-05
cis-1,3-Dichloropropene	ND	0.0052	"	"	"	"	"	"	O-05
trans-1,3-Dichloropropene	ND	0.0052	"	"	"	"	"	"	O-05
Hexachlorobutadiene	ND	0.0052	"	"	"	"	"	"	O-05
Isopropylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
p-Isopropyltoluene	ND	0.0052	"	"	"	"	"	"	O-05
Methylene chloride	ND	0.0052	"	"	"	"	"	"	O-05
Naphthalene	ND	0.0052	"	"	"	"	"	"	O-05
n-Propylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
Styrene	ND	0.0052	"	"	"	"	"	"	O-05
1,1,2,2-Tetrachloroethane	ND	0.0052	"	"	"	"	"	"	O-05
1,1,1,2-Tetrachloroethane	ND	0.0052	"	"	"	"	"	"	O-05
Tetrachloroethene	ND	0.0031	"	"	"	"	"	"	O-05
1,2,3-Trichlorobenzene	ND	0.0052	"	"	"	"	"	"	O-05
1,2,4-Trichlorobenzene	ND	0.0052	"	"	"	"	"	"	O-05
1,1,2-Trichloroethane	ND	0.0052	"	"	"	"	"	"	O-05
1,1,1-Trichloroethane	ND	0.0052	"	"	"	"	"	"	O-05
Trichloroethene	ND	0.0031	"	"	"	"	"	"	O-05
Trichlorofluoromethane	ND	0.0052	"	"	"	"	"	"	O-05
1,2,3-Trichloropropane	ND	0.0052	"	"	"	"	"	"	O-05
1,3,5-Trimethylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
1,2,4-Trimethylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
Vinyl chloride	ND	0.0052	"	"	"	"	"	"	O-05
Benzene	ND	0.0052	"	"	"	"	"	"	O-05
Toluene	ND	0.0052	"	"	"	"	"	"	O-05
Ethylbenzene	ND	0.0052	"	"	"	"	"	"	O-05
m,p-Xylene	ND	0.010	"	"	"	"	"	"	O-05
o-Xylene	ND	0.0052	"	"	"	"	"	"	O-05
Tert-amyl methyl ether	ND	0.021	"	"	"	"	"	"	O-05
Tert-butyl alcohol	ND	0.052	"	"	"	"	"	"	O-05
Di-isopropyl ether	ND	0.021	"	"	"	"	"	"	O-05

SunStar Laboratories, Inc.



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Project Number: SM19-259094
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Reported:
12/13/19 15:58

SB8-N2-10
T194052-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	0.021	mg/kg	1	9121041	12/10/19	12/12/19	EPA 8260B/5035	O-05
Methyl tert-butyl ether	ND	0.021	"	"	"	"	"	"	O-05
Surrogate: Toluene-d8		96.8 %	76.1-127		"	"	"	"	O-05
Surrogate: 4-Bromofluorobenzene		98.1 %	85.9-114		"	"	"	"	O-05
Surrogate: Dibromofluoromethane		111 %	77.8-142		"	"	"	"	O-05

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-1
T194052-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	16	10	"	"	"	"	"	"	
C29-C40 (MORO)	230	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		79.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	44	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	11/25/19	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	5.8	2.0	"	"	"	"	"	"	
Copper	7.7	1.0	"	"	"	"	"	"	
Lead	5.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	34	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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SB8-N1-1
T194052-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0090	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-1
T194052-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0090	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.2 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-1
T194052-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-5
T194052-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		81.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/25/19	"	
Arsenic	ND	5.0	"	"	"	"	11/25/19	"	
Barium	33	1.0	"	"	"	"	11/25/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	8.7	2.0	"	"	"	"	11/25/19	"	
Cobalt	4.7	2.0	"	"	"	"	11/25/19	"	
Copper	7.1	1.0	"	"	"	"	11/25/19	"	
Lead	3.2	3.0	"	"	"	"	11/25/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.1	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	19	5.0	"	"	"	"	11/25/19	"	
Zinc	24	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-5
T194052-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0084	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-5
T194052-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0084	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.5 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-5
T194052-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-10
T194052-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		79.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	27	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	11/25/19	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	8.9	2.0	"	"	"	"	"	"	
Cobalt	4.6	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	4.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	23	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-10
T194052-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0090	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-10
T194052-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9112220	11/22/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0090	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.9 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-10
T194052-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-15
T194052-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		79.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.3	5.0	"	"	"	"	"	"	
Barium	31	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	6.3	2.0	"	"	"	"	"	"	
Copper	9.1	1.0	"	"	"	"	"	"	
Lead	4.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-15
T194052-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0067	mg/kg	1	9112106	11/21/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0067	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0067	"	"	"	"	"	"	
Bromoform	ND	0.0067	"	"	"	"	"	"	
Bromomethane	ND	0.0067	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0067	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0067	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0067	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0067	"	"	"	"	"	"	
Chlorobenzene	ND	0.0067	"	"	"	"	"	"	
Chloroethane	ND	0.0067	"	"	"	"	"	"	
Chloroform	ND	0.0067	"	"	"	"	"	"	
Chloromethane	ND	0.0067	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0067	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0067	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0067	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.013	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0067	"	"	"	"	"	"	
Dibromomethane	ND	0.0067	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0067	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0067	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0067	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0067	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0067	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0067	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0067	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0067	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0067	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0067	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-15
T194052-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0067	mg/kg	1	9112106	11/21/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0067	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0067	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0067	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0067	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0067	"	"	"	"	"	"	
Methylene chloride	ND	0.0067	"	"	"	"	"	"	
Naphthalene	ND	0.0067	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0067	"	"	"	"	"	"	
Styrene	ND	0.0067	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0067	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0067	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0040	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0067	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0067	"	"	"	"	"	"	
Trichloroethene	ND	0.0040	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0067	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0067	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0067	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0067	"	"	"	"	"	"	
Vinyl chloride	ND	0.0067	"	"	"	"	"	"	
Benzene	ND	0.0067	"	"	"	"	"	"	
Toluene	ND	0.0067	"	"	"	"	"	"	
Ethylbenzene	ND	0.0067	"	"	"	"	"	"	
m,p-Xylene	ND	0.013	"	"	"	"	"	"	
o-Xylene	ND	0.0067	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.8 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-N1-15
T194052-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-1
T194052-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	73	10	"	"	"	"	"	"	
C29-C40 (MORO)	850	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		82.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	300	5.0	"	5	"	"	11/25/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	11/25/19	"	
Cadmium	2.1	2.0	"	"	"	"	11/25/19	"	
Chromium	540	10	"	5	"	"	11/25/19	"	RE-01
Cobalt	8.4	2.0	"	1	"	"	11/25/19	"	
Copper	70	1.0	"	"	"	"	"	"	
Lead	23	3.0	"	"	"	"	"	"	
Molybdenum	5.5	5.0	"	"	"	"	"	"	
Nickel	67	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	91	5.0	"	"	"	"	"	"	
Zinc	200	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-1
T194052-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9112106	11/21/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0084	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-1
T194052-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9112106	11/21/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0084	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.9 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-1
T194052-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-5
T194052-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		79.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	41	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	8.0	2.0	"	"	"	"	"	"	
Cobalt	5.4	2.0	"	"	"	"	"	"	
Copper	8.8	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-5
T194052-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9112106	11/21/19	11/23/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0089	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-5
T194052-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9112106	11/21/19	11/23/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0089	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.6 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-5
T194052-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-10
T194052-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112211	11/22/19	11/25/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		78.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112217	11/22/19	11/25/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	11/25/19	"	
Arsenic	ND	5.0	"	"	"	"	11/25/19	"	
Barium	25	1.0	"	"	"	"	11/25/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	11/25/19	"	
Chromium	9.5	2.0	"	"	"	"	11/25/19	"	
Cobalt	4.4	2.0	"	"	"	"	11/25/19	"	
Copper	9.8	1.0	"	"	"	"	11/25/19	"	
Lead	4.2	3.0	"	"	"	"	11/25/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	11/25/19	"	
Zinc	22	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112221	11/22/19	11/25/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-10
T194052-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0039	mg/kg	1	9112532	11/25/19	11/25/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0039	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0039	"	"	"	"	"	"	
Bromoform	ND	0.0039	"	"	"	"	"	"	
Bromomethane	ND	0.0039	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0039	"	"	"	"	"	"	
Chlorobenzene	ND	0.0039	"	"	"	"	"	"	
Chloroethane	ND	0.0039	"	"	"	"	"	"	
Chloroform	ND	0.0039	"	"	"	"	"	"	
Chloromethane	ND	0.0039	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0078	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0039	"	"	"	"	"	"	
Dibromomethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
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Reported:
12/13/19 15:58

SB8-W1-10
T194052-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0039	mg/kg	1	9112532	11/25/19	11/25/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0039	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0039	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0039	"	"	"	"	"	"	
Methylene chloride	ND	0.0039	"	"	"	"	"	"	
Naphthalene	ND	0.0039	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0039	"	"	"	"	"	"	
Styrene	ND	0.0039	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0039	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
Vinyl chloride	ND	0.0039	"	"	"	"	"	"	
Benzene	ND	0.0039	"	"	"	"	"	"	
Toluene	ND	0.0039	"	"	"	"	"	"	
Ethylbenzene	ND	0.0039	"	"	"	"	"	"	
m,p-Xylene	ND	0.0078	"	"	"	"	"	"	
o-Xylene	ND	0.0039	"	"	"	"	"	"	
Surrogate: Toluene-d8		262 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		267 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		241 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

SB8-W1-10
T194052-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112208 - EPA 3550B GC

Blank (9112208-BLK1)

Prepared: 11/22/19 Analyzed: 11/27/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	106		"	102		104	65-135			

LCS (9112208-BS1)

Prepared: 11/22/19 Analyzed: 11/27/19

C13-C28 (DRO)	510	10	mg/kg	510		99.2	75-125			
Surrogate: <i>p</i> -Terphenyl	105		"	102		103	65-135			

LCS Dup (9112208-BSD1)

Prepared: 11/22/19 Analyzed: 11/27/19

C13-C28 (DRO)	490	10	mg/kg	510		96.2	75-125	3.04	20	
Surrogate: <i>p</i> -Terphenyl	103		"	102		101	65-135			

Batch 9112211 - EPA 3550B GC

Blank (9112211-BLK1)

Prepared: 11/22/19 Analyzed: 11/25/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	82.9		"	101		82.0	65-135			

LCS (9112211-BS1)

Prepared: 11/22/19 Analyzed: 11/25/19

C13-C28 (DRO)	450	10	mg/kg	505		89.8	75-125			
Surrogate: <i>p</i> -Terphenyl	82.1		"	101		81.3	65-135			

LCS Dup (9112211-BSD1)

Prepared: 11/22/19 Analyzed: 11/25/19

C13-C28 (DRO)	420	10	mg/kg	505		82.4	75-125	8.60	20	
Surrogate: <i>p</i> -Terphenyl	81.3		"	101		80.5	65-135			

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121124 - EPA 3550B GC

Blank (9121124-BLK1)

Prepared & Analyzed: 12/11/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	78.8		"	101		78.0	65-135			

LCS (9121124-BS1)

Prepared & Analyzed: 12/11/19

C13-C28 (DRO)	420	10	mg/kg	505		84.1	75-125			
Surrogate: <i>p</i> -Terphenyl	77.4		"	101		76.6	65-135			

LCS Dup (9121124-BSD1)

Prepared & Analyzed: 12/11/19

C13-C28 (DRO)	430	10	mg/kg	505		86.0	75-125	2.16	20	
Surrogate: <i>p</i> -Terphenyl	78.0		"	101		77.3	65-135			

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112217 - EPA 3050B

Blank (9112217-BLK1)

Prepared: 11/22/19 Analyzed: 11/25/19

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	5.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (9112217-BS1)

Prepared: 11/22/19 Analyzed: 11/25/19

Arsenic	178	5.0	mg/kg	200	88.9	75-125
Barium	184	1.0	"	200	92.1	75-125
Cadmium	176	2.0	"	200	87.8	75-125
Chromium	183	2.0	"	200	91.3	75-125
Lead	178	3.0	"	200	89.1	75-125

Matrix Spike (9112217-MS1)

Source: T194044-40

Prepared: 11/22/19 Analyzed: 11/25/19

Arsenic	81.4	5.0	mg/kg	96.2	84.6	75-125	QM-05
Barium	107	1.0	"	96.2	111	75-125	QM-05
Cadmium	78.1	2.0	"	96.2	81.3	75-125	QM-05
Chromium	83.3	2.0	"	96.2	86.6	75-125	QM-05
Lead	77.4	3.0	"	96.2	80.5	75-125	QM-05

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112217 - EPA 3050B

Matrix Spike Dup (9112217-MSD1)

Source: T194044-40

Prepared: 11/22/19 Analyzed: 11/25/19

Arsenic	80.9	5.0	mg/kg	92.6		87.4	75-125	0.589	20	QM-05
Barium	111	1.0	"	92.6		120	75-125	3.92	20	QM-05
Cadmium	75.7	2.0	"	92.6		81.8	75-125	3.14	20	QM-05
Chromium	81.6	2.0	"	92.6		88.1	75-125	2.09	20	QM-05
Lead	76.4	3.0	"	92.6		82.5	75-125	1.39	20	QM-05

Batch 9112522 - EPA 3050B

Blank (9112522-BLK1)

Prepared: 11/25/19 Analyzed: 11/26/19

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	5.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (9112522-BS1)

Prepared: 11/25/19 Analyzed: 11/26/19

Arsenic	103	5.0	mg/kg	100	103	75-125
Barium	105	1.0	"	100	105	75-125
Cadmium	104	2.0	"	100	104	75-125
Chromium	104	2.0	"	100	104	75-125
Lead	104	3.0	"	100	104	75-125

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112522 - EPA 3050B

Matrix Spike (9112522-MS1)		Source: T194052-01		Prepared: 11/25/19 Analyzed: 11/26/19						
Arsenic	76.5	5.0	mg/kg	97.1	ND	78.8	75-125			
Barium	153	1.0	"	97.1	168	NR	75-125			QM-05
Cadmium	77.9	2.0	"	97.1	0.310	79.9	75-125			
Chromium	86.7	2.0	"	97.1	9.70	79.3	75-125			
Lead	77.5	3.0	"	97.1	4.28	75.4	75-125			

Matrix Spike Dup (9112522-MSD1)		Source: T194052-01		Prepared: 11/25/19 Analyzed: 11/26/19						
Arsenic	89.3	5.0	mg/kg	98.0	ND	91.1	75-125	15.4	20	
Barium	152	1.0	"	98.0	168	NR	75-125	0.899	20	QM-05
Cadmium	77.7	2.0	"	98.0	0.310	79.0	75-125	0.182	20	
Chromium	85.8	2.0	"	98.0	9.70	77.6	75-125	1.00	20	
Lead	79.9	3.0	"	98.0	4.28	77.1	75-125	3.06	20	

Batch 9121118 - EPA 3050B

Blank (9121118-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

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Mike Jaroudi, Project Manager

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121118 - EPA 3050B

LCS (9121118-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	105	5.0	mg/kg	100		105	75-125			
Barium	107	1.0	"	100		107	75-125			
Cadmium	106	2.0	"	100		106	75-125			
Chromium	106	2.0	"	100		106	75-125			
Lead	106	3.0	"	100		106	75-125			

Matrix Spike (9121118-MS1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	79.3	5.0	mg/kg	92.6	ND	85.6	75-125			
Barium	212	1.0	"	92.6	87.1	135	75-125			QM-05
Cadmium	79.0	2.0	"	92.6	2.02	83.2	75-125			
Chromium	148	2.0	"	92.6	89.7	62.8	75-125			QM-05
Lead	97.5	3.0	"	92.6	29.0	73.9	75-125			QM-05

Matrix Spike Dup (9121118-MSD1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	83.7	5.0	mg/kg	100	ND	83.7	75-125	5.48	20	
Barium	165	1.0	"	100	87.1	78.0	75-125	25.1	20	QM-05
Cadmium	85.5	2.0	"	100	2.02	83.5	75-125	7.93	20	
Chromium	140	2.0	"	100	89.7	49.8	75-125	5.83	20	QM-05
Lead	97.4	3.0	"	100	29.0	68.4	75-125	0.0953	20	QM-05

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Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 15:58

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112215 - EPA 7471A Soil

Blank (9112215-BLK1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	ND	0.10	mg/kg							
LCS (9112215-BS1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	0.443	0.10	mg/kg	0.417		106	80-120			
Matrix Spike (9112215-MS1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	0.416	0.10	mg/kg	0.410	ND	102	75-125			
Matrix Spike Dup (9112215-MSD1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	0.418	0.10	mg/kg	0.417	ND	100	75-125	0.421	20	

Batch 9112221 - EPA 7471A Soil

Blank (9112221-BLK1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	ND	0.10	mg/kg							
LCS (9112221-BS1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	0.414	0.10	mg/kg	0.410		101	80-120			
Matrix Spike (9112221-MS1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	0.381	0.10	mg/kg	0.391	ND	97.5	75-125			
Matrix Spike Dup (9112221-MSD1)				Prepared: 11/22/19 Analyzed: 11/25/19						
Mercury	0.354	0.10	mg/kg	0.385	ND	92.2	75-125	7.14	20	

Batch 9121117 - EPA 7471A Soil

Blank (9121117-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Mercury	ND	0.10	mg/kg							

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121117 - EPA 7471A Soil

LCS (9121117-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	0.403	0.10	mg/kg	0.403		100	80-120			
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Matrix Spike (9121117-MS1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	0.422	0.10	mg/kg	0.410	ND	103	75-125			
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Matrix Spike Dup (9121117-MSD1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	0.126	0.10	mg/kg	0.410	ND	30.8	75-125	108	20	QM-05
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112106 - EPA 5035 GCMS

Blank (9112106-BLK1)

Prepared: 11/21/19 Analyzed: 11/23/19

Bromobenzene	ND	0.0050	mg/kg
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
n-Butylbenzene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"

SunStar Laboratories, Inc.

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Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112106 - EPA 5035 GCMS

Blank (9112106-BLK1)

Prepared: 11/21/19 Analyzed: 11/23/19

p-Isopropyltoluene	ND	0.0050	mg/kg							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0030	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0030	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							

Surrogate: Toluene-d8	0.0380		"	0.0400	94.9	76.1-127
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400	99.3	85.9-114
Surrogate: Dibromofluoromethane	0.0377		"	0.0400	94.3	77.8-142

LCS (9112106-BS1)

Prepared: 11/21/19 Analyzed: 11/27/19

Chlorobenzene	0.115	0.0050	mg/kg	0.100	115	75-125
1,1-Dichloroethene	0.121	0.0050	"	0.100	121	75-125
Trichloroethene	0.107	0.0030	"	0.100	107	75-125
Benzene	0.107	0.0050	"	0.100	107	75-125
Toluene	0.108	0.0050	"	0.100	108	75-125
Surrogate: Toluene-d8	0.0361		"	0.0400	90.2	76.1-127
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400	95.1	85.9-114
Surrogate: Dibromofluoromethane	0.0367		"	0.0400	91.6	77.8-142

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Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112106 - EPA 5035 GCMS

LCS Dup (9112106-BSD1)

Prepared: 11/21/19 Analyzed: 11/27/19

Chlorobenzene	0.102	0.0050	mg/kg	0.100		102	75-125	12.1	20	
1,1-Dichloroethene	0.0835	0.0050	"	0.100		83.5	75-125	36.4	20	QR-02
Trichloroethene	0.0969	0.0030	"	0.100		96.9	75-125	9.59	20	
Benzene	0.0973	0.0050	"	0.100		97.3	75-125	9.86	20	
Toluene	0.0981	0.0050	"	0.100		98.1	75-125	9.94	20	
Surrogate: Toluene-d8	0.0377		"	0.0400		94.2	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		94.9	85.9-114			
Surrogate: Dibromofluoromethane	0.0371		"	0.0400		92.8	77.8-142			

Batch 9112220 - EPA 5035 GCMS

Blank (9112220-BLK1)

Prepared: 11/22/19 Analyzed: 12/04/19

Bromobenzene	ND	0.0050	mg/kg
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
n-Butylbenzene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"

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Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112220 - EPA 5035 GCMS

Blank (9112220-BLK1)

Prepared: 11/22/19 Analyzed: 12/04/19

1,2-Dichloroethane	ND	0.0050	mg/kg							
1,1-Dichloroethene	ND	0.0050	"							
cis-1,2-Dichloroethene	ND	0.0050	"							
trans-1,2-Dichloroethene	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
2,2-Dichloropropane	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0050	"							
Hexachlorobutadiene	ND	0.0050	"							
Isopropylbenzene	ND	0.0050	"							
p-Isopropyltoluene	ND	0.0050	"							
Methylene chloride	0.0127	0.0050	"							QB-01
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0030	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0030	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112220 - EPA 5035 GCMS

Blank (9112220-BLK1)

Prepared: 11/22/19 Analyzed: 12/04/19

Surrogate: Toluene-d8	0.0387		mg/kg	0.0400		96.6	76.1-127		
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.4	85.9-114		
Surrogate: Dibromofluoromethane	0.0458		"	0.0400		115	77.8-142		

LCS (9112220-BS1)

Prepared: 11/22/19 Analyzed: 12/04/19

Chlorobenzene	0.114	0.0050	mg/kg	0.100		114	75-125		
1,1-Dichloroethene	0.123	0.0050	"	0.100		123	75-125		
Trichloroethene	0.111	0.0030	"	0.100		111	75-125		
Benzene	0.112	0.0050	"	0.100		112	75-125		
Toluene	0.113	0.0050	"	0.100		113	75-125		
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	76.1-127		
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	85.9-114		
Surrogate: Dibromofluoromethane	0.0454		"	0.0400		113	77.8-142		

LCS Dup (9112220-BS1)

Prepared: 11/22/19 Analyzed: 12/04/19

Chlorobenzene	0.108	0.0050	mg/kg	0.100		108	75-125	5.90	20
1,1-Dichloroethene	0.106	0.0050	"	0.100		106	75-125	14.9	20
Trichloroethene	0.105	0.0030	"	0.100		105	75-125	5.34	20
Benzene	0.105	0.0050	"	0.100		105	75-125	6.09	20
Toluene	0.108	0.0050	"	0.100		108	75-125	5.03	20
Surrogate: Toluene-d8	0.0378		"	0.0400		94.6	76.1-127		
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	85.9-114		
Surrogate: Dibromofluoromethane	0.0451		"	0.0400		113	77.8-142		

Batch 9112223 - EPA 5035 GCMS

Blank (9112223-BLK1)

Prepared: 11/22/19 Analyzed: 11/23/19

Bromobenzene	ND	0.0050	mg/kg						
Bromochloromethane	ND	0.0050	"						
Bromodichloromethane	ND	0.0050	"						
Bromoform	ND	0.0050	"						
Bromomethane	ND	0.0050	"						
n-Butylbenzene	ND	0.0050	"						
sec-Butylbenzene	ND	0.0050	"						
tert-Butylbenzene	ND	0.0050	"						
Carbon tetrachloride	ND	0.0050	"						

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112223 - EPA 5035 GCMS

Blank (9112223-BLK1)

Prepared: 11/22/19 Analyzed: 11/23/19

Chlorobenzene	ND	0.0050	mg/kg
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
p-Isopropyltoluene	ND	0.0050	"
Methylene chloride	ND	0.0050	"
Naphthalene	ND	0.0050	"
n-Propylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"
Tetrachloroethene	ND	0.0030	"
1,2,3-Trichlorobenzene	ND	0.0050	"

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112223 - EPA 5035 GCMS

Blank (9112223-BLK1)

Prepared: 11/22/19 Analyzed: 11/23/19

1,2,4-Trichlorobenzene	ND	0.0050	mg/kg							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0030	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Surrogate: Toluene-d8	0.0382		"	0.0400		95.4	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	85.9-114			
Surrogate: Dibromofluoromethane	0.0392		"	0.0400		98.0	77.8-142			

LCS (9112223-BS1)

Prepared: 11/22/19 Analyzed: 11/27/19

Chlorobenzene	0.115	0.0050	mg/kg	0.100		115	75-125			
1,1-Dichloroethene	0.121	0.0050	"	0.100		121	75-125			
Trichloroethene	0.107	0.0030	"	0.100		107	75-125			
Benzene	0.107	0.0050	"	0.100		107	75-125			
Toluene	0.108	0.0050	"	0.100		108	75-125			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.2	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.1	85.9-114			
Surrogate: Dibromofluoromethane	0.0367		"	0.0400		91.6	77.8-142			

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112223 - EPA 5035 GCMS

LCS Dup (9112223-BSD1)

Prepared: 11/22/19 Analyzed: 11/27/19

Chlorobenzene	0.102	0.0050	mg/kg	0.100		102	75-125	12.1	20	
1,1-Dichloroethene	0.0835	0.0050	"	0.100		83.5	75-125	36.4	20	QR-02
Trichloroethene	0.0969	0.0030	"	0.100		96.9	75-125	9.59	20	
Benzene	0.0973	0.0050	"	0.100		97.3	75-125	9.86	20	
Toluene	0.0981	0.0050	"	0.100		98.1	75-125	9.94	20	
Surrogate: Toluene-d8	0.0377		"	0.0400		94.2	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		94.9	85.9-114			
Surrogate: Dibromofluoromethane	0.0371		"	0.0400		92.8	77.8-142			

Batch 9112532 - EPA 5035 GCMS

Blank (9112532-BLK1)

Prepared & Analyzed: 11/25/19

Bromobenzene	ND	0.0050	mg/kg
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
n-Butylbenzene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112532 - EPA 5035 GCMS

Blank (9112532-BLK1)

Prepared & Analyzed: 11/25/19

1,2-Dichloroethane	ND	0.0050	mg/kg
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
p-Isopropyltoluene	ND	0.0050	"
Methylene chloride	ND	0.0050	"
Naphthalene	ND	0.0050	"
n-Propylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"
Tetrachloroethene	ND	0.0030	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1,1-Trichloroethane	ND	0.0050	"
Trichloroethene	ND	0.0030	"
Trichlorofluoromethane	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
1,2,4-Trimethylbenzene	ND	0.0050	"
Vinyl chloride	ND	0.0050	"
Benzene	ND	0.0050	"
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
m,p-Xylene	ND	0.010	"
o-Xylene	ND	0.0050	"

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12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112532 - EPA 5035 GCMS

Blank (9112532-BLK1)

Prepared & Analyzed: 11/25/19

Surrogate: Toluene-d8	0.104		mg/kg	0.0400		259	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.0400		260	85.9-114			
Surrogate: Dibromofluoromethane	0.0951		"	0.0400		238	77.8-142			

LCS (9112532-BS1)

Prepared & Analyzed: 11/25/19

Chlorobenzene	0.0798	0.0050	mg/kg	0.100		79.8	75-125			
1,1-Dichloroethene	0.0770	0.0050	"	0.100		77.0	75-125			
Trichloroethene	0.0817	0.0030	"	0.100		81.7	75-125			
Benzene	0.0803	0.0050	"	0.100		80.3	75-125			
Toluene	0.0880	0.0050	"	0.100		88.0	75-125			
Surrogate: Toluene-d8	0.108		"	0.0400		270	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.0400		276	85.9-114			
Surrogate: Dibromofluoromethane	0.105		"	0.0400		262	77.8-142			

LCS Dup (9112532-BS1)

Prepared & Analyzed: 11/25/19

Chlorobenzene	0.0916	0.0050	mg/kg	0.100		91.6	75-125	13.7	20	
1,1-Dichloroethene	0.0855	0.0050	"	0.100		85.5	75-125	10.5	20	
Trichloroethene	0.0946	0.0030	"	0.100		94.6	75-125	14.7	20	
Benzene	0.0872	0.0050	"	0.100		87.2	75-125	8.26	20	
Toluene	0.0935	0.0050	"	0.100		93.5	75-125	5.99	20	
Surrogate: Toluene-d8	0.102		"	0.0400		255	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.0400		263	85.9-114			
Surrogate: Dibromofluoromethane	0.0946		"	0.0400		237	77.8-142			

Batch 9121041 - EPA 5035 GCMS

Blank (9121041-BLK1)

Prepared: 12/10/19 Analyzed: 12/11/19

Bromobenzene	ND	0.0050	mg/kg							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121041 - EPA 5035 GCMS

Blank (9121041-BLK1)

Prepared: 12/10/19 Analyzed: 12/11/19

Chlorobenzene	ND	0.0050	mg/kg
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
p-Isopropyltoluene	ND	0.0050	"
Methylene chloride	ND	0.0050	"
Naphthalene	ND	0.0050	"
n-Propylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"
Tetrachloroethene	ND	0.0030	"
1,2,3-Trichlorobenzene	ND	0.0050	"

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
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Project Manager: David Horrell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121041 - EPA 5035 GCMS

Blank (9121041-BLK1)

Prepared: 12/10/19 Analyzed: 12/11/19

1,2,4-Trichlorobenzene	ND	0.0050	mg/kg							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0030	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Tert-amyl methyl ether	ND	0.020	"							
Tert-butyl alcohol	ND	0.050	"							
Di-isopropyl ether	ND	0.020	"							
Ethyl tert-butyl ether	ND	0.020	"							
Methyl tert-butyl ether	ND	0.020	"							
Surrogate: Toluene-d8	0.102		"	0.100		102	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.100		103	85.9-114			
Surrogate: Dibromofluoromethane	0.105		"	0.100		105	77.8-142			

LCS (9121041-BS1)

Prepared: 12/10/19 Analyzed: 12/11/19

Chlorobenzene	0.0823	0.0050	mg/kg	0.100		82.3	75-125			
1,1-Dichloroethene	0.0767	0.0050	"	0.100		76.7	70-125			
Trichloroethene	0.0823	0.0030	"	0.100		82.3	75-125			
Benzene	0.0824	0.0050	"	0.100		82.4	75-125			
Toluene	0.0865	0.0050	"	0.100		86.5	75-125			
Surrogate: Toluene-d8	0.102		"	0.100		102	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.100		103	85.9-114			
Surrogate: Dibromofluoromethane	0.105		"	0.100		105	77.8-142			

SunStar Laboratories, Inc.



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.

Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121041 - EPA 5035 GCMS

LCS Dup (9121041-BSD1)

Prepared: 12/10/19 Analyzed: 12/11/19

Chlorobenzene	0.103	0.0050	mg/kg	0.100		103	75-125	21.9	20	QR-02
1,1-Dichloroethene	0.0930	0.0050	"	0.100		93.0	70-125	19.2	20	
Trichloroethene	0.101	0.0030	"	0.100		101	75-125	20.0	20	
Benzene	0.101	0.0050	"	0.100		101	75-125	20.1	20	QR-02
Toluene	0.105	0.0050	"	0.100		105	75-125	19.4	20	
Surrogate: Toluene-d8	0.103		"	0.100		103	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.100		101	85.9-114			
Surrogate: Dibromofluoromethane	0.106		"	0.100		106	77.8-142			

SunStar Laboratories, Inc.



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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 15:58

Notes and Definitions

RE-01	Sample contained analytes with concentrations above calibration limits and was rerun at a dilution.
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-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
O-05	This sample was extracted outside of the EPA recommended holding time.
AO-1	This Sample is run on GC-MS 4. Surrogate is spiked at 50 ppm. Surrogate recovery is within acceptable range.
5035R	5035 sample integrity was compromised and unusable. Analysis was performed from additional soil sampled.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager

Page 173 of 173



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/19/19 Page: 1 Of 4
Project Name: Whittram Fontana
Collector: DH/MW Client Project #: SM19-259094
Batch #: T194052 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
01	SB6 N2-1'	11/19/19	0730	Soil	VOAs+Jer	X							X	X				4
02	SB6 N2-5'		0755			X							X	X				4
03	SB6 N2-10'		0805			X							X	X				4
04	SB6 N2-15'		0815													HOLD	4	
05	SB6 N2-25'		1020													HOLD	4	
06	SB6 N1-1'		1210			X							X	X			4	
07	SB6 N1-5'		1215			X							X	X			4	
08	SB6 N1-10'		1222			X							X	X			4	
09	SB6 N1-15'		1226													HOLD	4	
10	SB6 N1-21'		1250													HOLD	4	
11	SB6 E1-1'		1319			X							X	X			4	
12	SB6 E1-5'		1332			X							X	X			4	
13	SB6 E1-16'		1345			X							X	X			4	
14	SB6 E2-1'		1458			X							X	X			4	
15	SB6 E2-5'		1505			X							X	X			4	
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Received good condition/cold		Notes		
<u>David Horrell</u>		<u>11/21/19 @ 1615</u>		<u>[Signature]</u>		<u>11-21-19 16:15</u>		<u>60</u>		<u>Y</u>		<u>Y</u>		<u>27C</u>				
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Turn around time: Std.

COC 190132

Chain of Custody Record

Client: PARTNER ESI
Address: 1701 E. GARRY AV, SANTA ANA, CA
Phone: 832 265 7187 Fax: _____
Project Manager: DAVID HORRELL

Date: 11.19.19 - 11.20.19 Page: 2 Of 4
Project Name: WATERMAN FONTANA
Collector: DH/MW Client Project #: SM19-25004
Batch #: T194052 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline) DH	8015M (diesel) DH	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
16	SB6E2-10'	11.19.19	1512	SOIL	VDA/JAR	X					X	X	X	X				4
17	SB6S1-1'	11.20.19	0748			X					X	X	X	X				4
18	SB6S1-5'		0753			X					X	X	X	X				4
19	SB6S1-10'		0805			X					X	X	X	X				4
20	SB6S1-15'		0816								X	X	X	X			HOLD	4
21	SB6S2-1'		0932			X					X	X	X	X				4
22	SB6S2-5'		0944			X					X	X	X	X				4
23	SB6S2-10'		0950			X					X	X	X	X				4
24	SB6S2-15'		0953								X	X	X	X			HOLD	4
25	SB6S2-20'		1016								X	X	X	X			HOLD	4
26	SB6W1-1'		1224			X					X	X	X	X				4
27	SB6W1-5'		1241			X					X	X	X	X				4
28	SB6W1-10'		1243			X					X	X	X	X				4
29	SB6W1-15'		1256														HOLD	4
30	SB6W1-20'		1302														HOLD	4
Relinquished by: (signature) <u>David Horrell</u> Date / Time <u>11/21/19 @ 1615</u>						Received by: (signature) <u>[Signature]</u> Date / Time <u>11-21-19 1615</u>						Total # of containers <u>60</u>		Notes				
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Chain of Custody seals Y/N/NA <u>(6)</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Seals intact? Y/N/NA <u>(6)</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Received good condition/cold <u>2.7C</u>		Turn around time: <u>Std</u>				

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190130

Chain of Custody Record

Client: PARTNER ES
Address: 1761 E. GARRY AVE, SANTA ANA, CA
Phone: 949.265.7187 Fax: _____
Project Manager: DAVID HORDELL

Date: 11.19.20 Page: 3 Of 4
Project Name: WHITRAM FONTANA
Collector: MWILLIAMS Client Project #: SM19-25904
Batch #: 7194052 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline) DH	8015M (diesel) DH	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
31	SBC-W2-1'	11.20.19	1405	SOIL	VACUUM	X					X	X	X	X				4
32	SBC-W2-5'		1416			X					X	X	X	X				4
33	SBC-W2-10'		1420			X					X	X	X	X				4
34	SBC-W2-15'		1426								X	X	X	X				4
35	SBC-W2-20'		1446								X	X	X	X				4
36	SBC-N2-1'	11.21.19	0941			X					X	X	X	X				4
37	SBC-N2-5'		0952			X					X	X	X	X				4
38	SBC-N2-10'		1002			X					X	X	X	X				4
39	SBC-N2-15'		1016															4
40	SBC-N2-20'		1026															4
41	SBC-N2-25'		1036															4
42	SBC-N1-1'		0742			X					X		X	X				4
43	SBC-N1-5'		0754			X					X		X	X				4
44	SBC-N1-10'		0812			X					X		X	X				4
45	SBC-N1-15'		0819								X							4
Relinquished by: (signature) <u>David Horde</u> Date / Time <u>11/21/19 @ 1615</u>						Received by: (signature) <u>[Signature]</u> Date / Time <u>11-21-19 16:15</u>						Total # of containers <u>60</u>		Notes				
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Chain of Custody seals Y/N/NA <u>Y</u>						
												Seals intact? Y/N/NA <u>Y</u>						
												Received good condition/cold <u>2.7°</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Turn around time: <u>Std.</u>						



949-297-5020

Chain of Custody Record

Date: 11/21/19 Page: 4 Of 4
Project Name: WHITRAM FONTANA
Collector: MW Client Project #: SM19-25904
Batch #: T194052 EDF #:

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each Return to client _____ Pickup _____

COC 161521

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T194052

Client Name: Partner ESI Project: Whittram Fontana

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Sunny Date/Time Lab Received: 11-21-19 16:15

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration Due: 6/27/20

Temperature: Cooler #1	1.5	°C +/- the CF (+ 1.2°C) =	2.7	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (+ 1.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (+ 1.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IF NO:				
Samples received on ice?		<input type="checkbox"/> Yes		<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-21-19

Comments:

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/02/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/21/19 16:15

Logged In By: Sunny Lounethone

Date Logged In: 11/21/19 18:12

Samples Received at: **2.7°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T194052-01 SB6N2-1 [Soil] Sampled 11/19/19 07:30 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	05/17/20 07:30
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 07:30
8260 5035	12/02/19 15:00	5	12/03/19 07:30

T194052-02 SB6N2-5 [Soil] Sampled 11/19/19 07:55 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	05/17/20 07:55
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 07:55
8260 5035	12/02/19 15:00	5	12/03/19 07:55

T194052-03 SB6N2-10 [Soil] Sampled 11/19/19 08:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	05/17/20 08:05
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 08:05
8260 5035	12/02/19 15:00	5	12/03/19 08:05

T194052-04 SB6N2-15 [Soil] Sampled 11/19/19 08:15 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194052-05 SB6N2-25 [Soil] Sampled 11/19/19 10:20 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-06 SB6N1-1 [Soil] Sampled 11/19/19 12:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 12:10	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:10	
8260 5035	12/02/19 15:00	5	12/03/19 12:10	
T194052-07 SB6N1-5 [Soil] Sampled 11/19/19 12:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 12:15	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:15	
8260 5035	12/02/19 15:00	5	12/03/19 12:15	
T194052-08 SB6N1-10 [Soil] Sampled 11/19/19 12:22 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 12:22	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:22	
8260 5035	12/02/19 15:00	5	12/03/19 12:22	
T194052-09 SB6N1-15 [Soil] Sampled 11/19/19 12:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-10 SB6N1-21 [Soil] Sampled 11/19/19 12:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-11 SB6E1-1 [Soil] Sampled 11/19/19 13:19 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 13:19	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:19	
8260 5035	12/02/19 15:00	5	12/03/19 13:19	
T194052-12 SB6E1-5 [Soil] Sampled 11/19/19 13:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 13:32	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:32	
8260 5035	12/02/19 15:00	5	12/03/19 13:32	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-13 SB6E1-10 [Soil] Sampled 11/19/19 13:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 13:45	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:45	
8260 5035	12/02/19 15:00	5	12/03/19 13:45	
T194052-14 SB6E2-1 [Soil] Sampled 11/19/19 14:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 14:58	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 14:58	
8260 5035	12/02/19 15:00	5	12/03/19 14:58	
T194052-15 SB6E2-5 [Soil] Sampled 11/19/19 15:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 15:05	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 15:05	
8260 5035	12/02/19 15:00	5	12/03/19 15:05	
T194052-16 SB6E2-10 [Soil] Sampled 11/19/19 15:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/17/20 15:12	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 15:12	
8260 5035	12/02/19 15:00	5	12/03/19 15:12	
T194052-17 SB6S1-1 [Soil] Sampled 11/20/19 07:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 07:48	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 07:48	
8260 5035	12/02/19 15:00	5	12/04/19 07:48	
T194052-18 SB6S1-5 [Soil] Sampled 11/20/19 07:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 07:58	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 07:58	
8260 5035	12/02/19 15:00	5	12/04/19 07:58	
T194052-19 SB6S1-10 [Soil] Sampled 11/20/19 08:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 08:05	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 08:05	
8260 5035	12/02/19 15:00	5	12/04/19 08:05	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-20 SB6S1-15 [Soil] Sampled 11/20/19 08:16 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-21 SB6S2-1 [Soil] Sampled 11/20/19 09:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 09:32	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:32	
8260 5035	12/02/19 15:00	5	12/04/19 09:32	
T194052-22 SB6S2-5 [Soil] Sampled 11/20/19 09:44 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 09:44	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:44	
8260 5035	12/02/19 15:00	5	12/04/19 09:44	
T194052-23 SB6S2-10 [Soil] Sampled 11/20/19 09:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 09:50	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:50	
8260 5035	12/02/19 15:00	5	12/04/19 09:50	
T194052-24 SB6S2-15 [Soil] Sampled 11/20/19 09:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-25 SB6S2-20 [Soil] Sampled 11/20/19 10:16 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-26 SB6W1-1 [Soil] Sampled 11/20/19 12:24 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 12:24	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:24	
8260 5035	12/02/19 15:00	5	12/04/19 12:24	
T194052-27 SB6W1-5 [Soil] Sampled 11/20/19 12:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 12:41	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:41	
8260 5035	12/02/19 15:00	5	12/04/19 12:41	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-28 SB6W1-10 [Soil] Sampled 11/20/19 12:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 12:48	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:48	
8260 5035	12/02/19 15:00	5	12/04/19 12:48	
T194052-29 SB6W1-15 [Soil] Sampled 11/20/19 12:56 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-30 SB6W1-20 [Soil] Sampled 11/20/19 13:02 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-31 SB6W2-1 [Soil] Sampled 11/20/19 14:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 14:05	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:05	
8260 5035	12/02/19 15:00	5	12/04/19 14:05	
T194052-32 SB6-W2-5 [Soil] Sampled 11/20/19 14:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 14:15	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:15	
8260 5035	12/02/19 15:00	5	12/04/19 14:15	
T194052-33 SB6-W2-10 [Soil] Sampled 11/20/19 14:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/18/20 14:20	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:20	
8260 5035	12/02/19 15:00	5	12/04/19 14:20	
T194052-34 SB6-W2-15 [Soil] Sampled 11/20/19 14:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-35 SB6-W2-20 [Soil] Sampled 11/20/19 14:46 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-36 SB8-N2-1 [Soil] Sampled 11/21/19 09:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 09:41	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 09:41	
8260 5035	12/02/19 15:00	5	12/05/19 09:41	
T194052-37 SB8-N2-5 [Soil] Sampled 11/21/19 09:52 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 09:52	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 09:52	
8260 5035	12/02/19 15:00	5	12/05/19 09:52	
T194052-38 SB8-N2-10 [Soil] Sampled 11/21/19 10:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 10:02	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 10:02	
8260 5035	12/02/19 15:00	5	12/05/19 10:02	
T194052-39 SB8-N2-15 [Soil] Sampled 11/21/19 10:16 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-40 SB8-N2-20 [Soil] Sampled 11/21/19 10:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-41 SB8-N2-25 [Soil] Sampled 11/21/19 10:36 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-42 SB8-N1-1 [Soil] Sampled 11/21/19 07:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 07:42	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 07:42	
8260 5035	12/02/19 15:00	5	12/05/19 07:42	
T194052-43 SB8-N1-5 [Soil] Sampled 11/21/19 07:54 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 07:54	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 07:54	
8260 5035	12/02/19 15:00	5	12/05/19 07:54	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-44 SB8-N1-10 [Soil] Sampled 11/21/19 08:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 08:12	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 08:12	
8260 5035	12/02/19 15:00	5	12/05/19 08:12	
T194052-45 SB8-N1-15 [Soil] Sampled 11/21/19 08:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 08:18	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 08:18	
8260 5035	12/02/19 15:00	5	12/05/19 08:18	
T194052-46 SB8-N1-20 [Soil] Sampled 11/21/19 08:24 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-47 SB8-N1-25 [Soil] Sampled 11/21/19 08:34 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-48 SB8-N2-1 [Soil] Sampled 11/21/19 12:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 12:50	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 12:50	
8260 5035	12/02/19 15:00	5	12/05/19 12:50	
T194052-49 SB8-N2-5 [Soil] Sampled 11/21/19 12:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 12:55	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 12:55	
8260 5035	12/02/19 15:00	5	12/05/19 12:55	
T194052-50 SB8-N2-10 [Soil] Sampled 11/21/19 13:08 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	05/19/20 13:08	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 13:08	
8260 5035	12/02/19 15:00	5	12/05/19 13:08	
T194052-51 SB8-N2-15 [Soil] Sampled 11/21/19 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
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T194052-52 SB8-N2-25 [Soil] Sampled 11/21/19 13:24 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
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Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/02/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/21/19 16:15

Logged In By: Sunny Lounethone

Date Logged In: 11/21/19 18:12

Samples Received at: **2.7°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T194052-01 SB6N2-1 [Soil] Sampled 11/19/19 07:30 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	11/24/19 07:30
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 07:30
8260 5035	12/02/19 15:00	5	12/03/19 07:30

T194052-02 SB6N2-5 [Soil] Sampled 11/19/19 07:55 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	11/24/19 07:55
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 07:55
8260 5035	12/02/19 15:00	5	12/03/19 07:55

T194052-03 SB6N2-10 [Soil] Sampled 11/19/19 08:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	11/24/19 08:05
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 08:05
8260 5035	12/02/19 15:00	5	12/03/19 08:05

T194052-04 SB6N2-15 [Soil] Sampled 11/19/19 08:15 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194052-05 SB6N2-25 [Soil] Sampled 11/19/19 10:20 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-06 SB6N1-1 [Soil] Sampled 11/19/19 12:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 12:10	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:10	
8260 5035	12/02/19 15:00	5	12/03/19 12:10	
T194052-07 SB6N1-5 [Soil] Sampled 11/19/19 12:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 12:15	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:15	
8260 5035	12/02/19 15:00	5	12/03/19 12:15	
T194052-08 SB6N1-10 [Soil] Sampled 11/19/19 12:22 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 12:22	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:22	
8260 5035	12/02/19 15:00	5	12/03/19 12:22	
T194052-09 SB6N1-15 [Soil] Sampled 11/19/19 12:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-10 SB6N1-21 [Soil] Sampled 11/19/19 12:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-11 SB6E1-1 [Soil] Sampled 11/19/19 13:19 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 13:19	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:19	
8260 5035	12/02/19 15:00	5	12/03/19 13:19	
T194052-12 SB6E1-5 [Soil] Sampled 11/19/19 13:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 13:32	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:32	
8260 5035	12/02/19 15:00	5	12/03/19 13:32	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-13 SB6E1-10 [Soil] Sampled 11/19/19 13:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 13:45	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:45	
8260 5035	12/02/19 15:00	5	12/03/19 13:45	
T194052-14 SB6E2-1 [Soil] Sampled 11/19/19 14:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 14:58	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 14:58	
8260 5035	12/02/19 15:00	5	12/03/19 14:58	
T194052-15 SB6E2-5 [Soil] Sampled 11/19/19 15:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 15:05	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 15:05	
8260 5035	12/02/19 15:00	5	12/03/19 15:05	
T194052-16 SB6E2-10 [Soil] Sampled 11/19/19 15:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 15:12	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 15:12	
8260 5035	12/02/19 15:00	5	12/03/19 15:12	
T194052-17 SB6S1-1 [Soil] Sampled 11/20/19 07:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 07:48	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 07:48	
8260 5035	12/02/19 15:00	5	12/04/19 07:48	
T194052-18 SB6S1-5 [Soil] Sampled 11/20/19 07:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 07:58	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 07:58	
8260 5035	12/02/19 15:00	5	12/04/19 07:58	
T194052-19 SB6S1-10 [Soil] Sampled 11/20/19 08:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 08:05	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 08:05	
8260 5035	12/02/19 15:00	5	12/04/19 08:05	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-20 SB6S1-15 [Soil] Sampled 11/20/19 08:16 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-21 SB6S2-1 [Soil] Sampled 11/20/19 09:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 09:32	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:32	
8260 5035	12/02/19 15:00	5	12/04/19 09:32	
T194052-22 SB6S2-5 [Soil] Sampled 11/20/19 09:44 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 09:44	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:44	
8260 5035	12/02/19 15:00	5	12/04/19 09:44	
T194052-23 SB6S2-10 [Soil] Sampled 11/20/19 09:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 09:50	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:50	
8260 5035	12/02/19 15:00	5	12/04/19 09:50	
T194052-24 SB6S2-15 [Soil] Sampled 11/20/19 09:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-25 SB6S2-20 [Soil] Sampled 11/20/19 10:16 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-26 SB6W1-1 [Soil] Sampled 11/20/19 12:24 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 12:24	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:24	
8260 5035	12/02/19 15:00	5	12/04/19 12:24	
T194052-27 SB6W1-5 [Soil] Sampled 11/20/19 12:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 12:41	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:41	
8260 5035	12/02/19 15:00	5	12/04/19 12:41	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-28 SB6W1-10 [Soil] Sampled 11/20/19 12:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 12:48	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:48	
8260 5035	12/02/19 15:00	5	12/04/19 12:48	
T194052-29 SB6W1-15 [Soil] Sampled 11/20/19 12:56 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-30 SB6W1-20 [Soil] Sampled 11/20/19 13:02 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-31 SB6W2-1 [Soil] Sampled 11/20/19 14:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 14:05	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:05	
8260 5035	12/02/19 15:00	5	12/04/19 14:05	
T194052-32 SB6-W2-5 [Soil] Sampled 11/20/19 14:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 14:15	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:15	
8260 5035	12/02/19 15:00	5	12/04/19 14:15	
T194052-33 SB6-W2-10 [Soil] Sampled 11/20/19 14:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 14:20	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:20	
8260 5035	12/02/19 15:00	5	12/04/19 14:20	
T194052-34 SB6-W2-15 [Soil] Sampled 11/20/19 14:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-35 SB6-W2-20 [Soil] Sampled 11/20/19 14:46 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-36 SB8-N2-1 [Soil] Sampled 11/21/19 09:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/03/19 15:00	5	05/19/20 09:41	
8015 Carbon Chain	11/27/19 15:00	3	12/05/19 09:41	
8260 5035	11/27/19 15:00	3	12/05/19 09:41	
T194052-37 SB8-N2-5 [Soil] Sampled 11/21/19 09:52 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/03/19 15:00	5	05/19/20 09:52	
8015 Carbon Chain	11/27/19 15:00	3	12/05/19 09:52	
8260 5035	11/27/19 15:00	3	12/05/19 09:52	
T194052-38 SB8-N2-10 [Soil] Sampled 11/21/19 10:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/03/19 15:00	5	05/19/20 10:02	
8015 Carbon Chain	11/27/19 15:00	3	12/05/19 10:02	
8260 5035	11/27/19 15:00	3	12/05/19 10:02	
T194052-39 SB8-N2-15 [Soil] Sampled 11/21/19 10:16 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-40 SB8-N2-20 [Soil] Sampled 11/21/19 10:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-41 SB8-N2-25 [Soil] Sampled 11/21/19 10:36 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-42 SB8-N1-1 [Soil] Sampled 11/21/19 07:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 07:42	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 07:42	
8260 5035	12/02/19 15:00	5	12/05/19 07:42	
T194052-43 SB8-N1-5 [Soil] Sampled 11/21/19 07:54 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 07:54	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 07:54	
8260 5035	12/02/19 15:00	5	12/05/19 07:54	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-44 SB8-N1-10 [Soil] Sampled 11/21/19 08:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 08:12	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 08:12	
8260 5035	12/02/19 15:00	5	12/05/19 08:12	
T194052-45 SB8-N1-15 [Soil] Sampled 11/21/19 08:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 08:18	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 08:18	
8260 5035	12/02/19 15:00	5	12/05/19 08:18	
T194052-46 SB8-N1-20 [Soil] Sampled 11/21/19 08:24 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-47 SB8-N1-25 [Soil] Sampled 11/21/19 08:34 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-48 SB8-W1-1 [Soil] Sampled 11/21/19 12:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 12:50	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 12:50	
8260 5035	12/02/19 15:00	5	12/05/19 12:50	
T194052-49 SB8-W1-5 [Soil] Sampled 11/21/19 12:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 12:55	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 12:55	
8260 5035	12/02/19 15:00	5	12/05/19 12:55	
T194052-50 SB8-W1-10 [Soil] Sampled 11/21/19 13:08 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 13:08	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 13:08	
8260 5035	12/02/19 15:00	5	12/05/19 13:08	
T194052-51 SB8-W1-15 [Soil] Sampled 11/21/19 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
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T194052-52 SB8-W1-25 [Soil] Sampled 11/21/19 13:24 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
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Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/02/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/21/19 16:15

Logged In By: Sunny Lounethone

Date Logged In: 11/21/19 18:12

Samples Received at: **2.7°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T194052-01 SB6N2-1 [Soil] Sampled 11/19/19 07:30 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	11/24/19 07:30
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 07:30
8260 5035	12/02/19 15:00	5	12/03/19 07:30

T194052-02 SB6N2-5 [Soil] Sampled 11/19/19 07:55 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	11/24/19 07:55
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 07:55
8260 5035	12/02/19 15:00	5	12/03/19 07:55

T194052-03 SB6N2-10 [Soil] Sampled 11/19/19 08:05 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/02/19 15:00	5	11/24/19 08:05
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 08:05
8260 5035	12/02/19 15:00	5	12/03/19 08:05

T194052-04 SB6N2-15 [Soil] Sampled 11/19/19 08:15 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194052-05 SB6N2-25 [Soil] Sampled 11/19/19 10:20 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-06 SB6N1-1 [Soil] Sampled 11/19/19 12:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 12:10	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:10	
8260 5035	12/02/19 15:00	5	12/03/19 12:10	
T194052-07 SB6N1-5 [Soil] Sampled 11/19/19 12:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 12:15	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:15	
8260 5035	12/02/19 15:00	5	12/03/19 12:15	
T194052-08 SB6N1-10 [Soil] Sampled 11/19/19 12:22 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 12:22	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 12:22	
8260 5035	12/02/19 15:00	5	12/03/19 12:22	
T194052-09 SB6N1-15 [Soil] Sampled 11/19/19 12:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-10 SB6N1-21 [Soil] Sampled 11/19/19 12:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-11 SB6E1-1 [Soil] Sampled 11/19/19 13:19 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 13:19	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:19	
8260 5035	12/02/19 15:00	5	12/03/19 13:19	
T194052-12 SB6E1-5 [Soil] Sampled 11/19/19 13:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 13:32	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:32	
8260 5035	12/02/19 15:00	5	12/03/19 13:32	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-13 SB6E1-10 [Soil] Sampled 11/19/19 13:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 13:45	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 13:45	
8260 5035	12/02/19 15:00	5	12/03/19 13:45	
T194052-14 SB6E2-1 [Soil] Sampled 11/19/19 14:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 14:58	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 14:58	
8260 5035	12/02/19 15:00	5	12/03/19 14:58	
T194052-15 SB6E2-5 [Soil] Sampled 11/19/19 15:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 15:05	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 15:05	
8260 5035	12/02/19 15:00	5	12/03/19 15:05	
T194052-16 SB6E2-10 [Soil] Sampled 11/19/19 15:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/24/19 15:12	
8015 Carbon Chain	12/02/19 15:00	5	12/03/19 15:12	
8260 5035	12/02/19 15:00	5	12/03/19 15:12	
T194052-17 SB6S1-1 [Soil] Sampled 11/20/19 07:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 07:48	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 07:48	
8260 5035	12/02/19 15:00	5	12/04/19 07:48	
T194052-18 SB6S1-5 [Soil] Sampled 11/20/19 07:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 07:58	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 07:58	
8260 5035	12/02/19 15:00	5	12/04/19 07:58	
T194052-19 SB6S1-10 [Soil] Sampled 11/20/19 08:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 08:05	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 08:05	
8260 5035	12/02/19 15:00	5	12/04/19 08:05	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-20 SB6S1-15 [Soil] Sampled 11/20/19 08:16 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-21 SB6S2-1 [Soil] Sampled 11/20/19 09:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 09:32	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:32	
8260 5035	12/02/19 15:00	5	12/04/19 09:32	
T194052-22 SB6S2-5 [Soil] Sampled 11/20/19 09:44 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 09:44	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:44	
8260 5035	12/02/19 15:00	5	12/04/19 09:44	
T194052-23 SB6S2-10 [Soil] Sampled 11/20/19 09:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 09:50	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 09:50	
8260 5035	12/02/19 15:00	5	12/04/19 09:50	
T194052-24 SB6S2-15 [Soil] Sampled 11/20/19 09:58 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-25 SB6S2-20 [Soil] Sampled 11/20/19 10:16 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194052-26 SB6W1-1 [Soil] Sampled 11/20/19 12:24 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 12:24	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:24	
8260 5035	12/02/19 15:00	5	12/04/19 12:24	
T194052-27 SB6W1-5 [Soil] Sampled 11/20/19 12:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 12:41	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:41	
8260 5035	12/02/19 15:00	5	12/04/19 12:41	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-28 SB6W1-10 [Soil] Sampled 11/20/19 12:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 12:48	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 12:48	
8260 5035	12/02/19 15:00	5	12/04/19 12:48	
T194052-29 SB6W1-15 [Soil] Sampled 11/20/19 12:56 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-30 SB6W1-20 [Soil] Sampled 11/20/19 13:02 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-31 SB6W2-1 [Soil] Sampled 11/20/19 14:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 14:05	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:05	
8260 5035	12/02/19 15:00	5	12/04/19 14:05	
T194052-32 SB6-W2-5 [Soil] Sampled 11/20/19 14:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 14:15	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:15	
8260 5035	12/02/19 15:00	5	12/04/19 14:15	
T194052-33 SB6-W2-10 [Soil] Sampled 11/20/19 14:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/25/19 14:20	
8015 Carbon Chain	12/02/19 15:00	5	12/04/19 14:20	
8260 5035	12/02/19 15:00	5	12/04/19 14:20	
T194052-34 SB6-W2-15 [Soil] Sampled 11/20/19 14:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-35 SB6-W2-20 [Soil] Sampled 11/20/19 14:46 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-36 SB8-N2-1 [Soil] Sampled 11/21/19 09:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/12/19 15:00	5	05/19/20 09:41	
8015 Carbon Chain	12/12/19 15:00	3	12/05/19 09:41	
8260 5035	12/12/19 15:00	3	12/05/19 09:41	
T194052-37 SB8-N2-5 [Soil] Sampled 11/21/19 09:52 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/12/19 15:00	5	05/19/20 09:52	
8015 Carbon Chain	12/12/19 15:00	3	12/05/19 09:52	
8260 5035	12/12/19 15:00	3	12/05/19 09:52	
T194052-38 SB8-N2-10 [Soil] Sampled 11/21/19 10:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/12/19 15:00	5	05/19/20 10:02	
8015 Carbon Chain	12/12/19 15:00	3	12/05/19 10:02	
8260 5035	12/12/19 15:00	3	12/05/19 10:02	
T194052-39 SB8-N2-15 [Soil] Sampled 11/21/19 10:16 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-40 SB8-N2-20 [Soil] Sampled 11/21/19 10:26 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-41 SB8-N2-25 [Soil] Sampled 11/21/19 10:36 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-42 SB8-N1-1 [Soil] Sampled 11/21/19 07:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 07:42	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 07:42	
8260 5035	12/02/19 15:00	5	12/05/19 07:42	
T194052-43 SB8-N1-5 [Soil] Sampled 11/21/19 07:54 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 07:54	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 07:54	
8260 5035	12/02/19 15:00	5	12/05/19 07:54	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194052-44 SB8-N1-10 [Soil] Sampled 11/21/19 08:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 08:12	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 08:12	
8260 5035	12/02/19 15:00	5	12/05/19 08:12	
T194052-45 SB8-N1-15 [Soil] Sampled 11/21/19 08:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 08:18	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 08:18	
8260 5035	12/02/19 15:00	5	12/05/19 08:18	
T194052-46 SB8-N1-20 [Soil] Sampled 11/21/19 08:24 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-47 SB8-N1-25 [Soil] Sampled 11/21/19 08:34 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194052-48 SB8-W1-1 [Soil] Sampled 11/21/19 12:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 12:50	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 12:50	
8260 5035	12/02/19 15:00	5	12/05/19 12:50	
STLC Pb	12/18/19 15:00	3	05/19/20 12:50	Cr Only
STLC Leaching Procedure Metals	12/18/19 15:00	3	05/19/20 12:50	Cr Only
T194052-49 SB8-W1-5 [Soil] Sampled 11/21/19 12:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 12:55	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 12:55	
8260 5035	12/02/19 15:00	5	12/05/19 12:55	
T194052-50 SB8-W1-10 [Soil] Sampled 11/21/19 13:08 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/02/19 15:00	5	11/26/19 13:08	
8015 Carbon Chain	12/02/19 15:00	5	12/05/19 13:08	
8260 5035	12/02/19 15:00	5	12/05/19 13:08	

WORK ORDER

T194052

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
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T194052-51 SB8-W1-15 [Soil] Sampled 11/21/19 13:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
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T194052-52 SB8-W1-25 [Soil] Sampled 11/21/19 13:24 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
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Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22

7470/71 Hg



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 11/26/19 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8 W2 1	T194106-01	Soil	11/21/19 14:45	11/26/19 17:45
SB8 W2 5	T194106-02	Soil	11/21/19 14:58	11/26/19 17:45
SB8 W2 10	T194106-03	Soil	11/21/19 15:08	11/26/19 17:45
SB8 S1 1	T194106-06	Soil	11/22/19 08:15	11/26/19 17:45
SB8 S1 5	T194106-07	Soil	11/22/19 08:25	11/26/19 17:45
SB8 S1 10	T194106-08	Soil	11/22/19 08:32	11/26/19 17:45
SB8 S2 1	T194106-11	Soil	11/22/19 09:48	11/26/19 17:45
SB8 S2 5	T194106-12	Soil	11/22/19 09:54	11/26/19 17:45
SB8 S2 10	T194106-13	Soil	11/22/19 10:04	11/26/19 17:45
SB8 E2 1	T194106-16	Soil	11/22/19 13:40	11/26/19 17:45
SB8 E2 5	T194106-17	Soil	11/22/19 13:48	11/26/19 17:45
SB8 E2 10	T194106-18	Soil	11/22/19 14:00	11/26/19 17:45
SB8 E1 1	T194106-21	Soil	11/22/19 14:32	11/26/19 17:45
SB8 E1 5	T194106-22	Soil	11/22/19 14:42	11/26/19 17:45
SB8 E1 10	T194106-23	Soil	11/22/19 14:50	11/26/19 17:45
SB15 W2 1	T194106-26	Soil	11/25/19 07:30	11/26/19 17:45
SB15 W2 5	T194106-27	Soil	11/25/19 07:38	11/26/19 17:45
SB15 W2 10	T194106-28	Soil	11/25/19 07:42	11/26/19 17:45
SB2 S2 1	T194106-30	Soil	11/25/19 08:58	11/26/19 17:45
SB2 S2 5	T194106-31	Soil	11/25/19 09:04	11/26/19 17:45
SB2 S2 10	T194106-32	Soil	11/25/19 09:12	11/26/19 17:45
SB15 S2 1	T194106-35	Soil	11/25/19 11:48	11/26/19 17:45
SB15 S2 5	T194106-36	Soil	11/25/19 12:02	11/26/19 17:45
SB15 S1 1	T194106-37	Soil	11/25/19 13:25	11/26/19 17:45
SB15 W1 1	T194106-38	Soil	11/25/19 14:00	11/26/19 17:45
SB15 W1 4	T194106-39	Soil	11/25/19 14:30	11/26/19 17:45

SunStar Laboratories, Inc.



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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB15 E2 1	T194106-40	Soil	11/26/19 07:20	11/26/19 17:45
SB15 E2 5	T194106-41	Soil	11/26/19 07:33	11/26/19 17:45
SB15 E2 10	T194106-42	Soil	11/26/19 07:38	11/26/19 17:45
SB15 E1 1	T194106-45	Soil	11/26/19 08:15	11/26/19 17:45
SB15 E1 5	T194106-46	Soil	11/26/19 09:00	11/26/19 17:45
SB15 E1 10	T194106-47	Soil	11/26/19 09:08	11/26/19 17:45
SB15 N1 1	T194106-49	Soil	11/26/19 10:05	11/26/19 17:45
SB15 N1 5	T194106-50	Soil	11/26/19 10:10	11/26/19 17:45
SB15 N1 10	T194106-51	Soil	11/26/19 10:18	11/26/19 17:45
SB15 N2 1	T194106-54	Soil	11/26/19 11:05	11/26/19 17:45
SB15 N2 5	T194106-55	Soil	11/26/19 11:12	11/26/19 17:45
SB15 N2 10	T194106-56	Soil	11/26/19 11:16	11/26/19 17:45

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

DETECTIONS SUMMARY

Sample ID: SB8 W2 1

Laboratory ID: T194106-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	620	100	mg/kg	EPA 8015B	
Barium	55	1.0	mg/kg	EPA 6010b	
Chromium	16	2.0	mg/kg	EPA 6010b	
Cobalt	7.1	2.0	mg/kg	EPA 6010b	
Copper	10	1.0	mg/kg	EPA 6010b	
Lead	12	3.0	mg/kg	EPA 6010b	
Nickel	10	2.0	mg/kg	EPA 6010b	
Vanadium	30	5.0	mg/kg	EPA 6010b	
Zinc	58	1.0	mg/kg	EPA 6010b	

Sample ID: SB8 W2 5

Laboratory ID: T194106-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	5.9	5.0	mg/kg	EPA 6010b	
Barium	33	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	5.9	2.0	mg/kg	EPA 6010b	
Copper	9.2	1.0	mg/kg	EPA 6010b	
Lead	3.4	3.0	mg/kg	EPA 6010b	
Nickel	7.4	2.0	mg/kg	EPA 6010b	
Vanadium	25	5.0	mg/kg	EPA 6010b	
Zinc	27	1.0	mg/kg	EPA 6010b	

Sample ID: SB8 W2 10

Laboratory ID: T194106-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	45	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	7.8	2.0	mg/kg	EPA 6010b	
Copper	11	1.0	mg/kg	EPA 6010b	
Lead	5.2	3.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB8 W2 10

Laboratory ID: T194106-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Nickel	8.8	2.0	mg/kg	EPA 6010b	
Vanadium	30	5.0	mg/kg	EPA 6010b	
Zinc	37	1.0	mg/kg	EPA 6010b	

Sample ID: SB8 S1 1

Laboratory ID: T194106-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	14	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	55	10	mg/kg	EPA 8015B	
Barium	48	1.0	mg/kg	EPA 6010b	
Chromium	22	2.0	mg/kg	EPA 6010b	
Cobalt	7.6	2.0	mg/kg	EPA 6010b	
Copper	17	1.0	mg/kg	EPA 6010b	
Lead	16	3.0	mg/kg	EPA 6010b	
Nickel	11	2.0	mg/kg	EPA 6010b	
Vanadium	39	5.0	mg/kg	EPA 6010b	
Zinc	70	1.0	mg/kg	EPA 6010b	

Sample ID: SB8 S1 5

Laboratory ID: T194106-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	41	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	6.2	2.0	mg/kg	EPA 6010b	
Copper	9.7	1.0	mg/kg	EPA 6010b	
Lead	3.2	3.0	mg/kg	EPA 6010b	
Nickel	7.6	2.0	mg/kg	EPA 6010b	
Vanadium	23	5.0	mg/kg	EPA 6010b	
Zinc	27	1.0	mg/kg	EPA 6010b	

Sample ID: SB8 S1 10

Laboratory ID: T194106-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	29	1.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB8 S1 10

Laboratory ID: T194106-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chromium	8.3	2.0		mg/kg	EPA 6010b	
Cobalt	4.4	2.0		mg/kg	EPA 6010b	
Copper	9.0	1.0		mg/kg	EPA 6010b	
Lead	3.7	3.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	18	5.0		mg/kg	EPA 6010b	
Zinc	22	1.0		mg/kg	EPA 6010b	

Sample ID: SB8 S2 1

Laboratory ID: T194106-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	14	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	140	10		mg/kg	EPA 8015B	
Barium	240	5.0		mg/kg	EPA 6010b	RE-01
Chromium	55	2.0		mg/kg	EPA 6010b	
Cobalt	7.2	2.0		mg/kg	EPA 6010b	
Copper	22	1.0		mg/kg	EPA 6010b	
Lead	11	3.0		mg/kg	EPA 6010b	
Nickel	9.5	2.0		mg/kg	EPA 6010b	
Vanadium	49	5.0		mg/kg	EPA 6010b	
Zinc	69	1.0		mg/kg	EPA 6010b	

Sample ID: SB8 S2 5

Laboratory ID: T194106-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	48	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	5.8	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	4.2	3.0		mg/kg	EPA 6010b	
Nickel	7.2	2.0		mg/kg	EPA 6010b	
Vanadium	24	5.0		mg/kg	EPA 6010b	
Zinc	27	1.0		mg/kg	EPA 6010b	

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB8 S2 10

Laboratory ID: T194106-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	49	1.0		mg/kg	EPA 6010b	
Chromium	17	2.0		mg/kg	EPA 6010b	
Cobalt	8.0	2.0		mg/kg	EPA 6010b	
Copper	14	1.0		mg/kg	EPA 6010b	
Lead	5.3	3.0		mg/kg	EPA 6010b	
Nickel	10	2.0		mg/kg	EPA 6010b	
Vanadium	30	5.0		mg/kg	EPA 6010b	
Zinc	40	1.0		mg/kg	EPA 6010b	

Sample ID: SB8 E2 1

Laboratory ID: T194106-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	880	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	140	10		mg/kg	EPA 8015B	
Barium	280	4.5		mg/kg	EPA 6010b	RE-01
Chromium	290	9.1		mg/kg	EPA 6010b	RE-01
Cobalt	6.1	1.8		mg/kg	EPA 6010b	
Copper	53	0.91		mg/kg	EPA 6010b	
Lead	15	2.7		mg/kg	EPA 6010b	
Nickel	17	1.8		mg/kg	EPA 6010b	
Vanadium	67	4.5		mg/kg	EPA 6010b	
Zinc	160	0.91		mg/kg	EPA 6010b	

Sample ID: SB8 E2 5

Laboratory ID: T194106-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	36	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	6.2	2.0		mg/kg	EPA 6010b	
Copper	9.6	1.0		mg/kg	EPA 6010b	
Lead	3.4	3.0		mg/kg	EPA 6010b	
Nickel	8.4	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	28	1.0		mg/kg	EPA 6010b	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB8 E2 10

Laboratory ID: T194106-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	66	1.0		mg/kg	EPA 6010b	
Chromium	21	2.0		mg/kg	EPA 6010b	
Cobalt	8.5	2.0		mg/kg	EPA 6010b	
Copper	26	1.0		mg/kg	EPA 6010b	
Lead	3.2	3.0		mg/kg	EPA 6010b	
Nickel	10	2.0		mg/kg	EPA 6010b	
Vanadium	34	5.0		mg/kg	EPA 6010b	
Zinc	40	1.0		mg/kg	EPA 6010b	

Sample ID: SB8 E1 1

Laboratory ID: T194106-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	50	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	6.4	2.0		mg/kg	EPA 6010b	
Copper	7.6	1.0		mg/kg	EPA 6010b	
Lead	5.6	3.0		mg/kg	EPA 6010b	
Nickel	8.3	2.0		mg/kg	EPA 6010b	
Vanadium	27	5.0		mg/kg	EPA 6010b	
Zinc	42	1.0		mg/kg	EPA 6010b	

Sample ID: SB8 E1 5

Laboratory ID: T194106-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	51	1.0		mg/kg	EPA 6010b	
Chromium	8.3	2.0		mg/kg	EPA 6010b	
Cobalt	5.6	2.0		mg/kg	EPA 6010b	
Copper	8.2	1.0		mg/kg	EPA 6010b	
Lead	6.1	3.0		mg/kg	EPA 6010b	
Nickel	6.2	2.0		mg/kg	EPA 6010b	
Vanadium	22	5.0		mg/kg	EPA 6010b	
Zinc	30	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB8 E1 10

Laboratory ID: T194106-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	33	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	5.1	2.0		mg/kg	EPA 6010b	
Copper	9.4	1.0		mg/kg	EPA 6010b	
Lead	3.5	3.0		mg/kg	EPA 6010b	
Nickel	7.2	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	29	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 W2 1

Laboratory ID: T194106-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	11	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	47	10		mg/kg	EPA 8015B	
Barium	46	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	6.9	2.0		mg/kg	EPA 6010b	
Copper	8.2	1.0		mg/kg	EPA 6010b	
Lead	3.8	3.0		mg/kg	EPA 6010b	
Nickel	8.9	2.0		mg/kg	EPA 6010b	
Vanadium	29	5.0		mg/kg	EPA 6010b	
Zinc	33	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 W2 5

Laboratory ID: T194106-27

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	14	10		mg/kg	EPA 8015B	
Barium	45	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	7.5	2.0		mg/kg	EPA 6010b	
Copper	12	1.0		mg/kg	EPA 6010b	
Lead	6.8	3.0		mg/kg	EPA 6010b	
Nickel	9.0	2.0		mg/kg	EPA 6010b	
Vanadium	30	5.0		mg/kg	EPA 6010b	
Zinc	32	1.0		mg/kg	EPA 6010b	

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Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB15 W2 10

Laboratory ID: T194106-28

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	34	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	5.3	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	3.7	3.0		mg/kg	EPA 6010b	
Nickel	7.5	2.0		mg/kg	EPA 6010b	
Vanadium	21	5.0		mg/kg	EPA 6010b	
Zinc	26	1.0		mg/kg	EPA 6010b	

Sample ID: SB2 S2 1

Laboratory ID: T194106-30

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.2	5.0		mg/kg	EPA 6010b	
Barium	48	1.0		mg/kg	EPA 6010b	
Chromium	14	2.0		mg/kg	EPA 6010b	
Cobalt	6.7	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	9.7	3.0		mg/kg	EPA 6010b	
Nickel	8.0	2.0		mg/kg	EPA 6010b	
Vanadium	27	5.0		mg/kg	EPA 6010b	
Zinc	37	1.0		mg/kg	EPA 6010b	

Sample ID: SB2 S2 5

Laboratory ID: T194106-31

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	29	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	5.3	2.0		mg/kg	EPA 6010b	
Copper	8.8	1.0		mg/kg	EPA 6010b	
Lead	6.0	3.0		mg/kg	EPA 6010b	
Nickel	6.9	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	29	1.0		mg/kg	EPA 6010b	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB2 S2 10

Laboratory ID: T194106-32

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	35	0.91		mg/kg	EPA 6010b	
Chromium	17	1.8		mg/kg	EPA 6010b	
Cobalt	7.0	1.8		mg/kg	EPA 6010b	
Copper	11	0.91		mg/kg	EPA 6010b	
Lead	7.1	2.7		mg/kg	EPA 6010b	
Nickel	11	1.8		mg/kg	EPA 6010b	
Vanadium	30	4.5		mg/kg	EPA 6010b	
Zinc	48	0.91		mg/kg	EPA 6010b	

Sample ID: SB15 S2 1

Laboratory ID: T194106-35

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	30	10		mg/kg	EPA 8015B	
Barium	45	1.0		mg/kg	EPA 6010b	
Chromium	15	2.0		mg/kg	EPA 6010b	
Cobalt	7.4	2.0		mg/kg	EPA 6010b	
Copper	12	1.0		mg/kg	EPA 6010b	
Lead	27	3.0		mg/kg	EPA 6010b	
Nickel	10	2.0		mg/kg	EPA 6010b	
Vanadium	31	5.0		mg/kg	EPA 6010b	
Zinc	97	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 S2 5

Laboratory ID: T194106-36

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	44	1.0		mg/kg	EPA 6010b	
Chromium	15	2.0		mg/kg	EPA 6010b	
Cobalt	7.0	2.0		mg/kg	EPA 6010b	
Copper	12	1.0		mg/kg	EPA 6010b	
Lead	4.1	3.0		mg/kg	EPA 6010b	
Nickel	9.3	2.0		mg/kg	EPA 6010b	
Vanadium	29	5.0		mg/kg	EPA 6010b	
Zinc	30	1.0		mg/kg	EPA 6010b	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB15 S1 1

Laboratory ID: T194106-37

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	570	50		mg/kg	EPA 8015B	
Silver	2.7	2.0		mg/kg	EPA 6010b	
Barium	51	1.0		mg/kg	EPA 6010b	
Chromium	260	10		mg/kg	EPA 6010b	RE-01
Cobalt	7.8	2.0		mg/kg	EPA 6010b	
Copper	24	1.0		mg/kg	EPA 6010b	
Lead	21	3.0		mg/kg	EPA 6010b	
Nickel	12	2.0		mg/kg	EPA 6010b	
Vanadium	320	25		mg/kg	EPA 6010b	RE-01
Zinc	82	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 W1 1

Laboratory ID: T194106-38

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	35	1.0		mg/kg	EPA 6010b	
Chromium	17	2.0		mg/kg	EPA 6010b	
Cobalt	5.8	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	3.8	3.0		mg/kg	EPA 6010b	
Nickel	7.5	2.0		mg/kg	EPA 6010b	
Vanadium	24	5.0		mg/kg	EPA 6010b	
Zinc	31	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 W1 4

Laboratory ID: T194106-39

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.8	5.0		mg/kg	EPA 6010b	
Barium	38	1.0		mg/kg	EPA 6010b	
Chromium	15	2.0		mg/kg	EPA 6010b	
Cobalt	7.1	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	4.3	3.0		mg/kg	EPA 6010b	
Nickel	9.0	2.0		mg/kg	EPA 6010b	
Vanadium	31	5.0		mg/kg	EPA 6010b	
Zinc	28	1.0		mg/kg	EPA 6010b	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB15 E2 1

Laboratory ID: T194106-40

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	16	10	mg/kg	EPA 8015B	
Barium	54	1.0	mg/kg	EPA 6010b	
Chromium	20	2.0	mg/kg	EPA 6010b	
Cobalt	8.3	2.0	mg/kg	EPA 6010b	
Copper	13	1.0	mg/kg	EPA 6010b	
Lead	12	3.0	mg/kg	EPA 6010b	
Nickel	11	2.0	mg/kg	EPA 6010b	
Vanadium	35	5.0	mg/kg	EPA 6010b	
Zinc	71	1.0	mg/kg	EPA 6010b	

Sample ID: SB15 E2 5

Laboratory ID: T194106-41

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	44	1.0	mg/kg	EPA 6010b	
Chromium	11	2.0	mg/kg	EPA 6010b	
Cobalt	6.7	2.0	mg/kg	EPA 6010b	
Copper	9.1	1.0	mg/kg	EPA 6010b	
Nickel	8.0	2.0	mg/kg	EPA 6010b	
Vanadium	26	5.0	mg/kg	EPA 6010b	
Zinc	34	1.0	mg/kg	EPA 6010b	

Sample ID: SB15 E2 10

Laboratory ID: T194106-42

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	46	1.0	mg/kg	EPA 6010b	
Chromium	13	2.0	mg/kg	EPA 6010b	
Cobalt	5.9	2.0	mg/kg	EPA 6010b	
Copper	11	1.0	mg/kg	EPA 6010b	
Lead	5.5	3.0	mg/kg	EPA 6010b	
Nickel	8.2	2.0	mg/kg	EPA 6010b	
Vanadium	24	5.0	mg/kg	EPA 6010b	
Zinc	39	1.0	mg/kg	EPA 6010b	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB15 E1 1

Laboratory ID: T194106-45

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	31	1.0		mg/kg	EPA 6010b	
Chromium	9.4	2.0		mg/kg	EPA 6010b	
Cobalt	5.4	2.0		mg/kg	EPA 6010b	
Copper	7.9	1.0		mg/kg	EPA 6010b	
Lead	3.0	3.0		mg/kg	EPA 6010b	
Nickel	6.5	2.0		mg/kg	EPA 6010b	
Vanadium	21	5.0		mg/kg	EPA 6010b	
Zinc	24	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 E1 5

Laboratory ID: T194106-46

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	39	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	5.9	2.0		mg/kg	EPA 6010b	
Copper	8.6	1.0		mg/kg	EPA 6010b	
Lead	3.9	3.0		mg/kg	EPA 6010b	
Nickel	7.5	2.0		mg/kg	EPA 6010b	
Vanadium	21	5.0		mg/kg	EPA 6010b	
Zinc	29	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 E1 10

Laboratory ID: T194106-47

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	36	1.0		mg/kg	EPA 6010b	
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	5.2	2.0		mg/kg	EPA 6010b	
Copper	12	1.0		mg/kg	EPA 6010b	
Lead	3.4	3.0		mg/kg	EPA 6010b	
Nickel	9.2	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	30	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB15 N1 1

Laboratory ID: T194106-49

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	75	10	mg/kg	EPA 8015B	
Barium	60	1.0	mg/kg	EPA 6010b	
Chromium	37	2.0	mg/kg	EPA 6010b	
Cobalt	6.9	2.0	mg/kg	EPA 6010b	
Copper	13	1.0	mg/kg	EPA 6010b	
Lead	65	3.0	mg/kg	EPA 6010b	
Nickel	9.7	2.0	mg/kg	EPA 6010b	
Vanadium	36	5.0	mg/kg	EPA 6010b	
Zinc	94	1.0	mg/kg	EPA 6010b	

Sample ID: SB15 N1 5

Laboratory ID: T194106-50

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	34	1.0	mg/kg	EPA 6010b	
Chromium	11	2.0	mg/kg	EPA 6010b	
Cobalt	5.7	2.0	mg/kg	EPA 6010b	
Copper	7.5	1.0	mg/kg	EPA 6010b	
Lead	3.1	3.0	mg/kg	EPA 6010b	
Nickel	7.0	2.0	mg/kg	EPA 6010b	
Vanadium	22	5.0	mg/kg	EPA 6010b	
Zinc	26	1.0	mg/kg	EPA 6010b	

Sample ID: SB15 N1 10

Laboratory ID: T194106-51

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	37	1.0	mg/kg	EPA 6010b	
Chromium	12	2.0	mg/kg	EPA 6010b	
Cobalt	6.8	2.0	mg/kg	EPA 6010b	
Copper	9.2	1.0	mg/kg	EPA 6010b	
Lead	3.1	3.0	mg/kg	EPA 6010b	
Nickel	8.4	2.0	mg/kg	EPA 6010b	
Vanadium	31	5.0	mg/kg	EPA 6010b	
Zinc	34	1.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Sample ID: SB15 N2 1

Laboratory ID: T194106-54

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	150	10		mg/kg	EPA 8015B	
Barium	48	1.0		mg/kg	EPA 6010b	
Chromium	33	2.0		mg/kg	EPA 6010b	
Cobalt	6.7	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	6.5	3.0		mg/kg	EPA 6010b	
Nickel	11	2.0		mg/kg	EPA 6010b	
Vanadium	30	5.0		mg/kg	EPA 6010b	
Zinc	45	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 N2 5

Laboratory ID: T194106-55

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	29	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	5.2	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	3.9	3.0		mg/kg	EPA 6010b	
Nickel	8.0	2.0		mg/kg	EPA 6010b	
Vanadium	23	5.0		mg/kg	EPA 6010b	
Zinc	25	1.0		mg/kg	EPA 6010b	

Sample ID: SB15 N2 10

Laboratory ID: T194106-56

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	29	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	5.7	2.0		mg/kg	EPA 6010b	
Copper	7.7	1.0		mg/kg	EPA 6010b	
Lead	3.4	3.0		mg/kg	EPA 6010b	
Nickel	6.8	2.0		mg/kg	EPA 6010b	
Vanadium	22	5.0		mg/kg	EPA 6010b	
Zinc	25	1.0		mg/kg	EPA 6010b	

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Project Number: SM19-259094
Project Manager: David Horrell

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 1
T194106-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	100	mg/kg	10	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	100	"	"	"	"	"	"	
C29-C40 (MORO)	620	100	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		76.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	55	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	7.1	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	12	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	10	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	58	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 1
T194106-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0040	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0040	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0040	"	"	"	"	"	"	
Bromoform	ND	0.0040	"	"	"	"	"	"	
Bromomethane	ND	0.0040	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0040	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0040	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0040	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0040	"	"	"	"	"	"	
Chlorobenzene	ND	0.0040	"	"	"	"	"	"	
Chloroethane	ND	0.0040	"	"	"	"	"	"	
Chloroform	ND	0.0040	"	"	"	"	"	"	
Chloromethane	ND	0.0040	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0040	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0040	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0040	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0081	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0040	"	"	"	"	"	"	
Dibromomethane	ND	0.0040	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0040	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0040	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0040	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0040	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0040	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0040	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0040	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0040	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0040	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0040	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0040	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0040	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 1
T194106-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0040	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0040	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0040	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0040	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0040	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0040	"	"	"	"	"	"	
Methylene chloride	ND	0.0040	"	"	"	"	"	"	
Naphthalene	ND	0.0040	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0040	"	"	"	"	"	"	
Styrene	ND	0.0040	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0040	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0040	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0024	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0040	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0040	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0040	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0040	"	"	"	"	"	"	
Trichloroethene	ND	0.0024	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0040	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0040	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0040	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0040	"	"	"	"	"	"	
Vinyl chloride	ND	0.0040	"	"	"	"	"	"	
Benzene	ND	0.0040	"	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	"	
m,p-Xylene	ND	0.0081	"	"	"	"	"	"	
o-Xylene	ND	0.0040	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.3 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 1
T194106-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 5
T194106-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		76.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.9	5.0	"	"	"	"	"	"	
Barium	33	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	5.9	2.0	"	"	"	"	"	"	
Copper	9.2	1.0	"	"	"	"	"	"	
Lead	3.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Reported:
12/13/19 16:03

SB8 W2 5
T194106-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0084	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 5
T194106-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0084	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		91.7 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 5
T194106-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 10
T194106-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B
C13-C28 (DRO)	ND	10	"	"	"	"	"	"
C29-C40 (MORO)	ND	10	"	"	"	"	"	"

Surrogate: *p*-Terphenyl 67.5 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b
Silver	ND	2.0	"	"	"	"	"	"
Arsenic	ND	5.0	"	"	"	"	"	"
Barium	45	1.0	"	"	"	"	"	"
Beryllium	ND	1.0	"	"	"	"	12/03/19	"
Cadmium	ND	2.0	"	"	"	"	12/03/19	"
Chromium	13	2.0	"	"	"	"	"	"
Cobalt	7.8	2.0	"	"	"	"	"	"
Copper	11	1.0	"	"	"	"	"	"
Lead	5.2	3.0	"	"	"	"	"	"
Molybdenum	ND	5.0	"	"	"	"	"	"
Nickel	8.8	2.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Thallium	ND	5.0	"	"	"	"	"	"
Vanadium	30	5.0	"	"	"	"	"	"
Zinc	37	1.0	"	"	"	"	"	"

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
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Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 10
T194106-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0041	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0041	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0041	"	"	"	"	"	"	
Bromoform	ND	0.0041	"	"	"	"	"	"	
Bromomethane	ND	0.0041	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0041	"	"	"	"	"	"	
Chlorobenzene	ND	0.0041	"	"	"	"	"	"	
Chloroethane	ND	0.0041	"	"	"	"	"	"	
Chloroform	ND	0.0041	"	"	"	"	"	"	
Chloromethane	ND	0.0041	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0082	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0041	"	"	"	"	"	"	
Dibromomethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 10
T194106-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0041	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0041	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0041	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0041	"	"	"	"	"	"	
Methylene chloride	ND	0.0041	"	"	"	"	"	"	
Naphthalene	ND	0.0041	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0041	"	"	"	"	"	"	
Styrene	ND	0.0041	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0041	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
Vinyl chloride	ND	0.0041	"	"	"	"	"	"	
Benzene	ND	0.0041	"	"	"	"	"	"	
Toluene	ND	0.0041	"	"	"	"	"	"	
Ethylbenzene	ND	0.0041	"	"	"	"	"	"	
m,p-Xylene	ND	0.0082	"	"	"	"	"	"	
o-Xylene	ND	0.0041	"	"	"	"	"	"	
Surrogate: Toluene-d8		87.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.3 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 W2 10
T194106-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
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Reported:
12/13/19 16:03

SB8 S1 1
T194106-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	14	10	"	"	"	"	"	"	
C29-C40 (MORO)	55	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		77.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	48	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	22	2.0	"	"	"	"	"	"	
Cobalt	7.6	2.0	"	"	"	"	"	"	
Copper	17	1.0	"	"	"	"	"	"	
Lead	16	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	39	5.0	"	"	"	"	"	"	
Zinc	70	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 1
T194106-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0038	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0038	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0038	"	"	"	"	"	"	
Bromoform	ND	0.0038	"	"	"	"	"	"	
Bromomethane	ND	0.0038	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0038	"	"	"	"	"	"	
Chlorobenzene	ND	0.0038	"	"	"	"	"	"	
Chloroethane	ND	0.0038	"	"	"	"	"	"	
Chloroform	ND	0.0038	"	"	"	"	"	"	
Chloromethane	ND	0.0038	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0077	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0038	"	"	"	"	"	"	
Dibromomethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	

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Project Number: SM19-259094
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Reported:
12/13/19 16:03

SB8 S1 1
T194106-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0038	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0038	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0038	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0038	"	"	"	"	"	"	
Methylene chloride	ND	0.0038	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0038	"	"	"	"	"	"	
Styrene	ND	0.0038	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0038	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
Vinyl chloride	ND	0.0038	"	"	"	"	"	"	
Benzene	ND	0.0038	"	"	"	"	"	"	
Toluene	ND	0.0038	"	"	"	"	"	"	
Ethylbenzene	ND	0.0038	"	"	"	"	"	"	
m,p-Xylene	ND	0.0077	"	"	"	"	"	"	
o-Xylene	ND	0.0038	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.5 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 1
T194106-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
12/13/19 16:03

SB8 S1 5
T194106-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	41	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	6.2	2.0	"	"	"	"	"	"	
Copper	9.7	1.0	"	"	"	"	"	"	
Lead	3.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 5
T194106-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0038	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0038	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0038	"	"	"	"	"	"	
Bromoform	ND	0.0038	"	"	"	"	"	"	
Bromomethane	ND	0.0038	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0038	"	"	"	"	"	"	
Chlorobenzene	ND	0.0038	"	"	"	"	"	"	
Chloroethane	ND	0.0038	"	"	"	"	"	"	
Chloroform	ND	0.0038	"	"	"	"	"	"	
Chloromethane	ND	0.0038	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0076	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0038	"	"	"	"	"	"	
Dibromomethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 5
T194106-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0038	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0038	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0038	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0038	"	"	"	"	"	"	
Methylene chloride	ND	0.0038	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0038	"	"	"	"	"	"	
Styrene	ND	0.0038	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0038	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
Vinyl chloride	ND	0.0038	"	"	"	"	"	"	
Benzene	ND	0.0038	"	"	"	"	"	"	
Toluene	ND	0.0038	"	"	"	"	"	"	
Ethylbenzene	ND	0.0038	"	"	"	"	"	"	
m,p-Xylene	ND	0.0076	"	"	"	"	"	"	
o-Xylene	ND	0.0038	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.2 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 5
T194106-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 10
T194106-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	29	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	8.3	2.0	"	"	"	"	"	"	
Cobalt	4.4	2.0	"	"	"	"	"	"	
Copper	9.0	1.0	"	"	"	"	"	"	
Lead	3.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	22	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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12/13/19 16:03

SB8 S1 10
T194106-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0086	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Reported:
12/13/19 16:03

SB8 S1 10
T194106-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0086	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.9 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S1 10
T194106-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 1
T194106-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	14	10	"	"	"	"	"	"	
C29-C40 (MORO)	140	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		78.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/03/19	"	
Arsenic	ND	5.0	"	"	"	"	12/03/19	"	
Barium	240	5.0	"	5	"	"	12/03/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	55	2.0	"	"	"	"	12/03/19	"	
Cobalt	7.2	2.0	"	"	"	"	12/03/19	"	
Copper	22	1.0	"	"	"	"	12/03/19	"	
Lead	11	3.0	"	"	"	"	12/03/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	49	5.0	"	"	"	"	12/03/19	"	
Zinc	69	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 1
T194106-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0084	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 1
T194106-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0084	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.0 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 1
T194106-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 5
T194106-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		81.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	48	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	5.8	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	4.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	27	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 5
T194106-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0088	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 5
T194106-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0088	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.4 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 5
T194106-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 10
T194106-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B
C13-C28 (DRO)	ND	10	"	"	"	"	"	"
C29-C40 (MORO)	ND	10	"	"	"	"	"	"

Surrogate: *p*-Terphenyl 78.1 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b
Silver	ND	2.0	"	"	"	"	"	"
Arsenic	ND	5.0	"	"	"	"	"	"
Barium	49	1.0	"	"	"	"	"	"
Beryllium	ND	1.0	"	"	"	"	"	"
Cadmium	ND	2.0	"	"	"	"	"	"
Chromium	17	2.0	"	"	"	"	"	"
Cobalt	8.0	2.0	"	"	"	"	"	"
Copper	14	1.0	"	"	"	"	"	"
Lead	5.3	3.0	"	"	"	"	"	"
Molybdenum	ND	5.0	"	"	"	"	"	"
Nickel	10	2.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Thallium	ND	5.0	"	"	"	"	"	"
Vanadium	30	5.0	"	"	"	"	"	"
Zinc	40	1.0	"	"	"	"	"	"

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil
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SB8 S2 10
T194106-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0091	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

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SB8 S2 10
T194106-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0091	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 S2 10
T194106-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 1
T194106-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	880	10	"	"	"	"	"	"	
C29-C40 (MORO)	140	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		80.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	280	4.5	"	5	"	"	12/03/19	"	RE-01
Beryllium	ND	0.91	"	1	"	"	12/03/19	"	
Cadmium	ND	1.8	"	"	"	"	12/03/19	"	
Chromium	290	9.1	"	5	"	"	12/03/19	"	RE-01
Cobalt	6.1	1.8	"	1	"	"	12/03/19	"	
Copper	53	0.91	"	"	"	"	"	"	
Lead	15	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	17	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Vanadium	67	4.5	"	"	"	"	"	"	
Zinc	160	0.91	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 1
T194106-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0039	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0039	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0039	"	"	"	"	"	"	
Bromoform	ND	0.0039	"	"	"	"	"	"	
Bromomethane	ND	0.0039	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0039	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0039	"	"	"	"	"	"	
Chlorobenzene	ND	0.0039	"	"	"	"	"	"	
Chloroethane	ND	0.0039	"	"	"	"	"	"	
Chloroform	ND	0.0039	"	"	"	"	"	"	
Chloromethane	ND	0.0039	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0039	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0079	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0039	"	"	"	"	"	"	
Dibromomethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0039	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0039	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0039	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0039	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 1
T194106-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0039	mg/kg	1	9120222	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0039	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0039	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0039	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0039	"	"	"	"	"	"	
Methylene chloride	ND	0.0039	"	"	"	"	"	"	
Naphthalene	ND	0.0039	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0039	"	"	"	"	"	"	
Styrene	ND	0.0039	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0039	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0024	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0039	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0039	"	"	"	"	"	"	
Trichloroethene	ND	0.0024	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0039	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0039	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0039	"	"	"	"	"	"	
Vinyl chloride	ND	0.0039	"	"	"	"	"	"	
Benzene	ND	0.0039	"	"	"	"	"	"	
Toluene	ND	0.0039	"	"	"	"	"	"	
Ethylbenzene	ND	0.0039	"	"	"	"	"	"	
m,p-Xylene	ND	0.0079	"	"	"	"	"	"	
o-Xylene	ND	0.0039	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.5 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 1
T194106-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 5
T194106-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 74.5 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	36	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	6.2	2.0	"	"	"	"	"	"	
Copper	9.6	1.0	"	"	"	"	"	"	
Lead	3.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	28	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 5
T194106-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0089	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 5
T194106-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0089	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.7 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.7 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 5
T194106-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 10
T194106-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/03/19	"	
Arsenic	ND	5.0	"	"	"	"	12/03/19	"	
Barium	66	1.0	"	"	"	"	12/03/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	21	2.0	"	"	"	"	12/03/19	"	
Cobalt	8.5	2.0	"	"	"	"	12/03/19	"	
Copper	26	1.0	"	"	"	"	12/03/19	"	
Lead	3.2	3.0	"	"	"	"	12/03/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	10	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	12/03/19	"	
Vanadium	34	5.0	"	"	"	"	"	"	
Zinc	40	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 10
T194106-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0038	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0038	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0038	"	"	"	"	"	"	
Bromoform	ND	0.0038	"	"	"	"	"	"	
Bromomethane	ND	0.0038	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0038	"	"	"	"	"	"	
Chlorobenzene	ND	0.0038	"	"	"	"	"	"	
Chloroethane	ND	0.0038	"	"	"	"	"	"	
Chloroform	ND	0.0038	"	"	"	"	"	"	
Chloromethane	ND	0.0038	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0077	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0038	"	"	"	"	"	"	
Dibromomethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 10
T194106-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0038	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0038	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0038	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0038	"	"	"	"	"	"	
Methylene chloride	ND	0.0038	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0038	"	"	"	"	"	"	
Styrene	ND	0.0038	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0038	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
Vinyl chloride	ND	0.0038	"	"	"	"	"	"	
Benzene	ND	0.0038	"	"	"	"	"	"	
Toluene	ND	0.0038	"	"	"	"	"	"	
Ethylbenzene	ND	0.0038	"	"	"	"	"	"	
m,p-Xylene	ND	0.0077	"	"	"	"	"	"	
o-Xylene	ND	0.0038	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.5 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E2 10
T194106-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 1
T194106-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	50	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	6.4	2.0	"	"	"	"	"	"	
Copper	7.6	1.0	"	"	"	"	"	"	
Lead	5.6	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	42	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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12/13/19 16:03

SB8 E1 1
T194106-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0090	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 1
T194106-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0090	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.9 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 1
T194106-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 5
T194106-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/03/19	"	
Arsenic	ND	5.0	"	"	"	"	12/03/19	"	
Barium	51	1.0	"	"	"	"	12/03/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	8.3	2.0	"	"	"	"	"	"	
Cobalt	5.6	2.0	"	"	"	"	"	"	
Copper	8.2	1.0	"	"	"	"	12/03/19	"	
Lead	6.1	3.0	"	"	"	"	12/03/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	12/03/19	"	
Zinc	30	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SB8 E1 5
T194106-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0085	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 5
T194106-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0085	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.7 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 5
T194106-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 10
T194106-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 76.7 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	33	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	5.1	2.0	"	"	"	"	"	"	
Copper	9.4	1.0	"	"	"	"	"	"	
Lead	3.5	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	29	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 10
T194106-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0041	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0041	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0041	"	"	"	"	"	"	
Bromoform	ND	0.0041	"	"	"	"	"	"	
Bromomethane	ND	0.0041	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0041	"	"	"	"	"	"	
Chlorobenzene	ND	0.0041	"	"	"	"	"	"	
Chloroethane	ND	0.0041	"	"	"	"	"	"	
Chloroform	ND	0.0041	"	"	"	"	"	"	
Chloromethane	ND	0.0041	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0083	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0041	"	"	"	"	"	"	
Dibromomethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 10
T194106-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0041	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0041	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0041	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0041	"	"	"	"	"	"	
Methylene chloride	ND	0.0041	"	"	"	"	"	"	
Naphthalene	ND	0.0041	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0041	"	"	"	"	"	"	
Styrene	ND	0.0041	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0041	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
Vinyl chloride	ND	0.0041	"	"	"	"	"	"	
Benzene	ND	0.0041	"	"	"	"	"	"	
Toluene	ND	0.0041	"	"	"	"	"	"	
Ethylbenzene	ND	0.0041	"	"	"	"	"	"	
m,p-Xylene	ND	0.0083	"	"	"	"	"	"	
o-Xylene	ND	0.0041	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.2 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB8 E1 10
T194106-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W2 1
T194106-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	11	10	"	"	"	"	"	"	
C29-C40 (MORO)	47	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		82.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	46	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	8.2	1.0	"	"	"	"	"	"	
Lead	3.8	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	29	5.0	"	"	"	"	"	"	
Zinc	33	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W2 1
T194106-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0089	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W2 1
T194106-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0089	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.3 %	77.8-142		"	"	"	"	

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W2 1
T194106-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Reported:
12/13/19 16:03

SB15 W2 5
T194106-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	14	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		74.7 %		65-135	"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	45	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	7.5	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	6.8	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	32	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SB15 W2 5
T194106-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0050	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W2 5
T194106-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0050	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0030	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	77.8-142		"	"	"	"	

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12/13/19 16:03

SB15 W2 5
T194106-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W2 10
T194106-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		79.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	34	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	5.3	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	3.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SB15 W2 10
T194106-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0091	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

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Project Manager: David Horrell

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12/13/19 16:03

SB15 W2 10
T194106-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0091	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.6 %	77.8-142		"	"	"	"	

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Project Manager: David Horrell

Reported:
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SB15 W2 10
T194106-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 1
T194106-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9121130	12/11/19	12/12/19	EPA 8015B	O-05
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	O-05
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		95.8 %	65-135		"	"	"	"	O-05

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9121118	12/11/19	12/12/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.2	5.0	"	"	"	"	"	"	
Barium	48	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	6.7	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	9.7	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	37	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9121117	12/11/19	12/12/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 1
T194106-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0050	mg/kg	1	9121042	12/10/19	12/12/19	EPA 8260B/5035	I-02
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	I-02
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	I-02
Bromoform	ND	0.0050	"	"	"	"	"	"	I-02
Bromomethane	ND	0.0050	"	"	"	"	"	"	I-02
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	I-02
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	I-02
Chloroethane	ND	0.0050	"	"	"	"	"	"	I-02
Chloroform	ND	0.0050	"	"	"	"	"	"	I-02
Chloromethane	ND	0.0050	"	"	"	"	"	"	I-02
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	I-02
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	I-02
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	I-02
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	I-02
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	I-02
Dibromomethane	ND	0.0050	"	"	"	"	"	"	I-02
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	I-02
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	I-02
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	I-02
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	I-02
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	I-02
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	I-02
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	I-02
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	I-02
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	I-02
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	I-02
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	I-02
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	I-02

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 1
T194106-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0050	mg/kg	1	9121042	12/10/19	12/12/19	EPA 8260B/5035	I-02
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	I-02
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	I-02
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	I-02
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	I-02
Methylene chloride	ND	0.0050	"	"	"	"	"	"	I-02
Naphthalene	ND	0.0050	"	"	"	"	"	"	I-02
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
Styrene	ND	0.0050	"	"	"	"	"	"	I-02
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	I-02
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	I-02
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	I-02
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	I-02
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	I-02
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	I-02
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	I-02
Trichloroethene	ND	0.0030	"	"	"	"	"	"	I-02
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	I-02
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	I-02
Benzene	ND	0.0050	"	"	"	"	"	"	I-02
Toluene	ND	0.0050	"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
m,p-Xylene	ND	0.010	"	"	"	"	"	"	I-02
o-Xylene	ND	0.0050	"	"	"	"	"	"	I-02
Surrogate: Toluene-d8		80.7 %	76.1-127		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene		72.6 %	85.9-114		"	"	"	"	I-02, S-GC
Surrogate: Dibromofluoromethane		77.4 %	77.8-142		"	"	"	"	I-02, S-GC

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 1
T194106-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 5
T194106-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		78.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	29	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	5.3	2.0	"	"	"	"	"	"	
Copper	8.8	1.0	"	"	"	"	"	"	
Lead	6.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	29	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
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Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 5
T194106-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.011	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.011	"	"	"	"	"	"	
Bromodichloromethane	ND	0.011	"	"	"	"	"	"	
Bromoform	ND	0.011	"	"	"	"	"	"	
Bromomethane	ND	0.011	"	"	"	"	"	"	
n-Butylbenzene	ND	0.011	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.011	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.011	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.011	"	"	"	"	"	"	
Chlorobenzene	ND	0.011	"	"	"	"	"	"	
Chloroethane	ND	0.011	"	"	"	"	"	"	
Chloroform	ND	0.011	"	"	"	"	"	"	
Chloromethane	ND	0.011	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.011	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.011	"	"	"	"	"	"	
Dibromochloromethane	ND	0.011	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.022	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.011	"	"	"	"	"	"	
Dibromomethane	ND	0.011	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.011	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.011	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.011	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.011	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.011	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.011	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.011	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.011	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.011	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.011	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.011	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.011	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 5
T194106-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.011	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.011	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.011	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.011	"	"	"	"	"	"	
Isopropylbenzene	ND	0.011	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.011	"	"	"	"	"	"	
Methylene chloride	ND	0.011	"	"	"	"	"	"	
Naphthalene	ND	0.011	"	"	"	"	"	"	
n-Propylbenzene	ND	0.011	"	"	"	"	"	"	
Styrene	ND	0.011	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.011	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.011	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0066	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.011	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.011	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.011	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.011	"	"	"	"	"	"	
Trichloroethene	ND	0.0066	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.011	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.011	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.011	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.011	"	"	"	"	"	"	
Vinyl chloride	ND	0.011	"	"	"	"	"	"	
Benzene	ND	0.011	"	"	"	"	"	"	
Toluene	ND	0.011	"	"	"	"	"	"	
Ethylbenzene	ND	0.011	"	"	"	"	"	"	
m,p-Xylene	ND	0.022	"	"	"	"	"	"	
o-Xylene	ND	0.011	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.6 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 5
T194106-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 10
T194106-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112707	11/27/19	12/02/19	EPA 8015B
C13-C28 (DRO)	ND	10	"	"	"	"	"	"
C29-C40 (MORO)	ND	10	"	"	"	"	"	"

Surrogate: *p*-Terphenyl 78.8 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	2.7	mg/kg	1	9112711	11/27/19	12/03/19	EPA 6010b
Silver	ND	1.8	"	"	"	"	"	"
Arsenic	ND	4.5	"	"	"	"	"	"
Barium	35	0.91	"	"	"	"	"	"
Beryllium	ND	0.91	"	"	"	"	12/03/19	"
Cadmium	ND	1.8	"	"	"	"	12/03/19	"
Chromium	17	1.8	"	"	"	"	"	"
Cobalt	7.0	1.8	"	"	"	"	"	"
Copper	11	0.91	"	"	"	"	"	"
Lead	7.1	2.7	"	"	"	"	"	"
Molybdenum	ND	4.5	"	"	"	"	"	"
Nickel	11	1.8	"	"	"	"	"	"
Selenium	ND	4.5	"	"	"	"	"	"
Thallium	ND	4.5	"	"	"	"	"	"
Vanadium	30	4.5	"	"	"	"	"	"
Zinc	48	0.91	"	"	"	"	"	"

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112710	11/27/19	12/02/19	EPA 7471A Soil
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 10
T194106-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0049	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0049	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0049	"	"	"	"	"	"	
Bromoform	ND	0.0049	"	"	"	"	"	"	
Bromomethane	ND	0.0049	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0049	"	"	"	"	"	"	
Chlorobenzene	ND	0.0049	"	"	"	"	"	"	
Chloroethane	ND	0.0049	"	"	"	"	"	"	
Chloroform	ND	0.0049	"	"	"	"	"	"	
Chloromethane	ND	0.0049	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0098	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0049	"	"	"	"	"	"	
Dibromomethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 16:03

SB2 S2 10
T194106-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0049	mg/kg	1	9120222	12/02/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0049	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0049	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0049	"	"	"	"	"	"	
Methylene chloride	ND	0.0049	"	"	"	"	"	"	
Naphthalene	ND	0.0049	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0049	"	"	"	"	"	"	
Styrene	ND	0.0049	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0049	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
Vinyl chloride	ND	0.0049	"	"	"	"	"	"	
Benzene	ND	0.0049	"	"	"	"	"	"	
Toluene	ND	0.0049	"	"	"	"	"	"	
Ethylbenzene	ND	0.0049	"	"	"	"	"	"	
m,p-Xylene	ND	0.0098	"	"	"	"	"	"	
o-Xylene	ND	0.0049	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.5 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB2 S2 10
T194106-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 1
T194106-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	30	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		101 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	45	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	7.4	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	27	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	10	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	31	5.0	"	"	"	"	"	"	
Zinc	97	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 1
T194106-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0049	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0049	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0049	"	"	"	"	"	"	
Bromoform	ND	0.0049	"	"	"	"	"	"	
Bromomethane	ND	0.0049	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0049	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0049	"	"	"	"	"	"	
Chlorobenzene	ND	0.0049	"	"	"	"	"	"	
Chloroethane	ND	0.0049	"	"	"	"	"	"	
Chloroform	ND	0.0049	"	"	"	"	"	"	
Chloromethane	ND	0.0049	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0049	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0098	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0049	"	"	"	"	"	"	
Dibromomethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0049	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0049	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0049	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0049	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 1
T194106-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0049	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0049	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0049	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0049	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0049	"	"	"	"	"	"	
Methylene chloride	ND	0.0049	"	"	"	"	"	"	
Naphthalene	ND	0.0049	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0049	"	"	"	"	"	"	
Styrene	ND	0.0049	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0049	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0049	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0049	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0049	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0049	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0049	"	"	"	"	"	"	
Vinyl chloride	ND	0.0049	"	"	"	"	"	"	
Benzene	ND	0.0049	"	"	"	"	"	"	
Toluene	ND	0.0049	"	"	"	"	"	"	
Ethylbenzene	ND	0.0049	"	"	"	"	"	"	
m,p-Xylene	ND	0.0098	"	"	"	"	"	"	
o-Xylene	ND	0.0049	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		82.4 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 1
T194106-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 5
T194106-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B
C13-C28 (DRO)	ND	10	"	"	"	"	"	"
C29-C40 (MORO)	ND	10	"	"	"	"	"	"

Surrogate: *p*-Terphenyl 101 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b
Silver	ND	2.0	"	"	"	"	"	"
Arsenic	ND	5.0	"	"	"	"	"	"
Barium	44	1.0	"	"	"	"	"	"
Beryllium	ND	1.0	"	"	"	"	12/03/19	"
Cadmium	ND	2.0	"	"	"	"	12/03/19	"
Chromium	15	2.0	"	"	"	"	"	"
Cobalt	7.0	2.0	"	"	"	"	"	"
Copper	12	1.0	"	"	"	"	"	"
Lead	4.1	3.0	"	"	"	"	"	"
Molybdenum	ND	5.0	"	"	"	"	"	"
Nickel	9.3	2.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Thallium	ND	5.0	"	"	"	"	"	"
Vanadium	29	5.0	"	"	"	"	"	"
Zinc	30	1.0	"	"	"	"	"	"

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 5
T194106-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0047	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0047	"	"	"	"	"	"	
Bromoform	ND	0.0047	"	"	"	"	"	"	
Bromomethane	ND	0.0047	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0047	"	"	"	"	"	"	
Chlorobenzene	ND	0.0047	"	"	"	"	"	"	
Chloroethane	ND	0.0047	"	"	"	"	"	"	
Chloroform	ND	0.0047	"	"	"	"	"	"	
Chloromethane	ND	0.0047	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0093	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0047	"	"	"	"	"	"	
Dibromomethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 5
T194106-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0047	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0047	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0047	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0047	"	"	"	"	"	"	
Methylene chloride	ND	0.0047	"	"	"	"	"	"	
Naphthalene	ND	0.0047	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0047	"	"	"	"	"	"	
Styrene	ND	0.0047	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0047	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
Vinyl chloride	ND	0.0047	"	"	"	"	"	"	
Benzene	ND	0.0047	"	"	"	"	"	"	
Toluene	ND	0.0047	"	"	"	"	"	"	
Ethylbenzene	ND	0.0047	"	"	"	"	"	"	
m,p-Xylene	ND	0.0093	"	"	"	"	"	"	
o-Xylene	ND	0.0047	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		97.1 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S2 5
T194106-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S1 1
T194106-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	50	mg/kg	5	9112709	11/27/19	12/02/19	EPA 8015B	R-07
C13-C28 (DRO)	ND	50	"	"	"	"	"	"	R-07
C29-C40 (MORO)	570	50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		90.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	2.7	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	51	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	260	10	"	5	"	"	12/03/19	"	RE-01
Cobalt	7.8	2.0	"	1	"	"	12/03/19	"	
Copper	24	1.0	"	"	"	"	"	"	
Lead	21	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	320	25	"	5	"	"	12/03/19	"	RE-01
Zinc	82	1.0	"	1	"	"	12/03/19	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S1 1
T194106-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0085	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 S1 1
T194106-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0085	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		91.8 %	77.8-142		"	"	"	"	

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SB15 S1 1
T194106-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 1
T194106-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		99.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/03/19	"	
Arsenic	ND	5.0	"	"	"	"	12/03/19	"	
Barium	35	1.0	"	"	"	"	12/03/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	17	2.0	"	"	"	"	12/03/19	"	
Cobalt	5.8	2.0	"	"	"	"	12/03/19	"	
Copper	10	1.0	"	"	"	"	12/03/19	"	
Lead	3.8	3.0	"	"	"	"	12/03/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	12/03/19	"	
Zinc	31	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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SB15 W1 1
T194106-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0060	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0060	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0060	"	"	"	"	"	"	
Bromoform	ND	0.0060	"	"	"	"	"	"	
Bromomethane	ND	0.0060	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0060	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0060	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0060	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0060	"	"	"	"	"	"	
Chlorobenzene	ND	0.0060	"	"	"	"	"	"	
Chloroethane	ND	0.0060	"	"	"	"	"	"	
Chloroform	ND	0.0060	"	"	"	"	"	"	
Chloromethane	ND	0.0060	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0060	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0060	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0060	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.012	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0060	"	"	"	"	"	"	
Dibromomethane	ND	0.0060	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0060	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0060	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0060	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0060	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0060	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0060	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0060	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0060	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0060	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0060	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 1
T194106-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0060	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0060	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0060	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0060	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0060	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0060	"	"	"	"	"	"	
Methylene chloride	ND	0.0060	"	"	"	"	"	"	
Naphthalene	ND	0.0060	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0060	"	"	"	"	"	"	
Styrene	ND	0.0060	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0060	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0060	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0036	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0060	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0060	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0060	"	"	"	"	"	"	
Trichloroethene	ND	0.0036	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0060	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0060	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0060	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0060	"	"	"	"	"	"	
Vinyl chloride	ND	0.0060	"	"	"	"	"	"	
Benzene	ND	0.0060	"	"	"	"	"	"	
Toluene	ND	0.0060	"	"	"	"	"	"	
Ethylbenzene	ND	0.0060	"	"	"	"	"	"	
m,p-Xylene	ND	0.012	"	"	"	"	"	"	
o-Xylene	ND	0.0060	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.3 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 1
T194106-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 4
T194106-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		101 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.8	5.0	"	"	"	"	"	"	
Barium	38	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	7.1	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	4.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	31	5.0	"	"	"	"	"	"	
Zinc	28	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 4
T194106-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0050	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 4
T194106-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0050	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0030	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.5 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 W1 4
T194106-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 1
T194106-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	16	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		98.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	54	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	20	2.0	"	"	"	"	"	"	
Cobalt	8.3	2.0	"	"	"	"	"	"	
Copper	13	1.0	"	"	"	"	"	"	
Lead	12	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	35	5.0	"	"	"	"	"	"	
Zinc	71	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 1
T194106-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0091	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 1
T194106-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0091	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 1
T194106-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 5
T194106-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		102 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	44	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.7	2.0	"	"	"	"	"	"	
Copper	9.1	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	34	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Project Manager: David Horrell

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12/13/19 16:03

SB15 E2 5
T194106-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0048	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0048	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0048	"	"	"	"	"	"	
Bromoform	ND	0.0048	"	"	"	"	"	"	
Bromomethane	ND	0.0048	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0048	"	"	"	"	"	"	
Chlorobenzene	ND	0.0048	"	"	"	"	"	"	
Chloroethane	ND	0.0048	"	"	"	"	"	"	
Chloroform	ND	0.0048	"	"	"	"	"	"	
Chloromethane	ND	0.0048	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0096	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0048	"	"	"	"	"	"	
Dibromomethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 5
T194106-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0048	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0048	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0048	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0048	"	"	"	"	"	"	
Methylene chloride	ND	0.0048	"	"	"	"	"	"	
Naphthalene	ND	0.0048	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0048	"	"	"	"	"	"	
Styrene	ND	0.0048	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0048	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
Vinyl chloride	ND	0.0048	"	"	"	"	"	"	
Benzene	ND	0.0048	"	"	"	"	"	"	
Toluene	ND	0.0048	"	"	"	"	"	"	
Ethylbenzene	ND	0.0048	"	"	"	"	"	"	
m,p-Xylene	ND	0.0096	"	"	"	"	"	"	
o-Xylene	ND	0.0048	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		88.6 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 5
T194106-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 10
T194106-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/02/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		98.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	46	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	5.9	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	5.5	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	39	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 10
T194106-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0047	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0047	"	"	"	"	"	"	
Bromoform	ND	0.0047	"	"	"	"	"	"	
Bromomethane	ND	0.0047	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0047	"	"	"	"	"	"	
Chlorobenzene	ND	0.0047	"	"	"	"	"	"	
Chloroethane	ND	0.0047	"	"	"	"	"	"	
Chloroform	ND	0.0047	"	"	"	"	"	"	
Chloromethane	ND	0.0047	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0093	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0047	"	"	"	"	"	"	
Dibromomethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 10
T194106-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0047	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0047	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0047	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0047	"	"	"	"	"	"	
Methylene chloride	ND	0.0047	"	"	"	"	"	"	
Naphthalene	ND	0.0047	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0047	"	"	"	"	"	"	
Styrene	ND	0.0047	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0047	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
Vinyl chloride	ND	0.0047	"	"	"	"	"	"	
Benzene	ND	0.0047	"	"	"	"	"	"	
Toluene	ND	0.0047	"	"	"	"	"	"	
Ethylbenzene	ND	0.0047	"	"	"	"	"	"	
m,p-Xylene	ND	0.0093	"	"	"	"	"	"	
o-Xylene	ND	0.0047	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.1 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E2 10
T194106-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 1
T194106-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		104 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/03/19	"	
Arsenic	ND	5.0	"	"	"	"	12/03/19	"	
Barium	31	1.0	"	"	"	"	12/03/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	9.4	2.0	"	"	"	"	"	"	
Cobalt	5.4	2.0	"	"	"	"	"	"	
Copper	7.9	1.0	"	"	"	"	12/03/19	"	
Lead	3.0	3.0	"	"	"	"	12/03/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	12/03/19	"	
Zinc	24	1.0	"	"	"	"	12/03/19	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 1
T194106-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0048	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0048	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0048	"	"	"	"	"	"	
Bromoform	ND	0.0048	"	"	"	"	"	"	
Bromomethane	ND	0.0048	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0048	"	"	"	"	"	"	
Chlorobenzene	ND	0.0048	"	"	"	"	"	"	
Chloroethane	ND	0.0048	"	"	"	"	"	"	
Chloroform	ND	0.0048	"	"	"	"	"	"	
Chloromethane	ND	0.0048	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0096	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0048	"	"	"	"	"	"	
Dibromomethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 1
T194106-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0048	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0048	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0048	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0048	"	"	"	"	"	"	
Methylene chloride	ND	0.0048	"	"	"	"	"	"	
Naphthalene	ND	0.0048	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0048	"	"	"	"	"	"	
Styrene	ND	0.0048	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0048	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
Vinyl chloride	ND	0.0048	"	"	"	"	"	"	
Benzene	ND	0.0048	"	"	"	"	"	"	
Toluene	ND	0.0048	"	"	"	"	"	"	
Ethylbenzene	ND	0.0048	"	"	"	"	"	"	
m,p-Xylene	ND	0.0096	"	"	"	"	"	"	
o-Xylene	ND	0.0048	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.7 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 1
T194106-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 5
T194106-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		103 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	39	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	5.9	2.0	"	"	"	"	"	"	
Copper	8.6	1.0	"	"	"	"	"	"	
Lead	3.9	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	29	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 5
T194106-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0088	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 5
T194106-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0088	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.5 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 5
T194106-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 10
T194106-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		101 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	36	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	5.2	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	3.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	30	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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SB15 E1 10
T194106-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0051	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0051	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0051	"	"	"	"	"	"	
Bromoform	ND	0.0051	"	"	"	"	"	"	
Bromomethane	ND	0.0051	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0051	"	"	"	"	"	"	
Chlorobenzene	ND	0.0051	"	"	"	"	"	"	
Chloroethane	ND	0.0051	"	"	"	"	"	"	
Chloroform	ND	0.0051	"	"	"	"	"	"	
Chloromethane	ND	0.0051	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0051	"	"	"	"	"	"	
Dibromomethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 10
T194106-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0051	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0051	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0051	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0051	"	"	"	"	"	"	
Methylene chloride	ND	0.0051	"	"	"	"	"	"	
Naphthalene	ND	0.0051	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0051	"	"	"	"	"	"	
Styrene	ND	0.0051	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0031	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
Trichloroethene	ND	0.0031	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0051	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
Vinyl chloride	ND	0.0051	"	"	"	"	"	"	
Benzene	ND	0.0051	"	"	"	"	"	"	
Toluene	ND	0.0051	"	"	"	"	"	"	
Ethylbenzene	ND	0.0051	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0051	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.6 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 E1 10
T194106-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 1
T194106-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	75	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		102 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	60	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	37	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	13	1.0	"	"	"	"	"	"	
Lead	65	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	36	5.0	"	"	"	"	"	"	
Zinc	94	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Reported:
12/13/19 16:03

SB15 N1 1
T194106-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0054	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0054	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0054	"	"	"	"	"	"	
Bromoform	ND	0.0054	"	"	"	"	"	"	
Bromomethane	ND	0.0054	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0054	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0054	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0054	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0054	"	"	"	"	"	"	
Chlorobenzene	ND	0.0054	"	"	"	"	"	"	
Chloroethane	ND	0.0054	"	"	"	"	"	"	
Chloroform	ND	0.0054	"	"	"	"	"	"	
Chloromethane	ND	0.0054	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0054	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0054	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0054	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.011	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0054	"	"	"	"	"	"	
Dibromomethane	ND	0.0054	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0054	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0054	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0054	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0054	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0054	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0054	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0054	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0054	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0054	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0054	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 1
T194106-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0054	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0054	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0054	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0054	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0054	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0054	"	"	"	"	"	"	
Methylene chloride	ND	0.0054	"	"	"	"	"	"	
Naphthalene	ND	0.0054	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0054	"	"	"	"	"	"	
Styrene	ND	0.0054	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0054	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0054	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0033	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0054	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0054	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0054	"	"	"	"	"	"	
Trichloroethene	ND	0.0033	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0054	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0054	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0054	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0054	"	"	"	"	"	"	
Vinyl chloride	ND	0.0054	"	"	"	"	"	"	
Benzene	ND	0.0054	"	"	"	"	"	"	
Toluene	ND	0.0054	"	"	"	"	"	"	
Ethylbenzene	ND	0.0054	"	"	"	"	"	"	
m,p-Xylene	ND	0.011	"	"	"	"	"	"	
o-Xylene	ND	0.0054	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		85.6 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 1
T194106-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 5
T194106-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	34	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	7.5	1.0	"	"	"	"	"	"	
Lead	3.1	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 5
T194106-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0038	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0038	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0038	"	"	"	"	"	"	
Bromoform	ND	0.0038	"	"	"	"	"	"	
Bromomethane	ND	0.0038	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0038	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0038	"	"	"	"	"	"	
Chlorobenzene	ND	0.0038	"	"	"	"	"	"	
Chloroethane	ND	0.0038	"	"	"	"	"	"	
Chloroform	ND	0.0038	"	"	"	"	"	"	
Chloromethane	ND	0.0038	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0038	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0075	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0038	"	"	"	"	"	"	
Dibromomethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0038	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0038	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0038	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0038	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 5
T194106-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0038	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0038	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0038	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0038	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0038	"	"	"	"	"	"	
Methylene chloride	ND	0.0038	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0038	"	"	"	"	"	"	
Styrene	ND	0.0038	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0038	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0023	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0038	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0038	"	"	"	"	"	"	
Trichloroethene	ND	0.0023	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0038	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0038	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0038	"	"	"	"	"	"	
Vinyl chloride	ND	0.0038	"	"	"	"	"	"	
Benzene	ND	0.0038	"	"	"	"	"	"	
Toluene	ND	0.0038	"	"	"	"	"	"	
Ethylbenzene	ND	0.0038	"	"	"	"	"	"	
m,p-Xylene	ND	0.0075	"	"	"	"	"	"	
o-Xylene	ND	0.0038	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.9 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 5
T194106-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 10
T194106-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		98.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/03/19	"	
Arsenic	ND	5.0	"	"	"	"	12/03/19	"	
Barium	37	1.0	"	"	"	"	12/03/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	12	2.0	"	"	"	"	12/03/19	"	
Cobalt	6.8	2.0	"	"	"	"	12/03/19	"	
Copper	9.2	1.0	"	"	"	"	12/03/19	"	
Lead	3.1	3.0	"	"	"	"	12/03/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	31	5.0	"	"	"	"	12/03/19	"	
Zinc	34	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 10
T194106-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0051	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0051	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0051	"	"	"	"	"	"	
Bromoform	ND	0.0051	"	"	"	"	"	"	
Bromomethane	ND	0.0051	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0051	"	"	"	"	"	"	
Chlorobenzene	ND	0.0051	"	"	"	"	"	"	
Chloroethane	ND	0.0051	"	"	"	"	"	"	
Chloroform	ND	0.0051	"	"	"	"	"	"	
Chloromethane	ND	0.0051	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0051	"	"	"	"	"	"	
Dibromomethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	

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Mike Jaroudi, Project Manager



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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 10
T194106-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0051	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0051	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0051	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0051	"	"	"	"	"	"	
Methylene chloride	ND	0.0051	"	"	"	"	"	"	
Naphthalene	ND	0.0051	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0051	"	"	"	"	"	"	
Styrene	ND	0.0051	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
Trichloroethene	ND	0.0030	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0051	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
Vinyl chloride	ND	0.0051	"	"	"	"	"	"	
Benzene	ND	0.0051	"	"	"	"	"	"	
Toluene	ND	0.0051	"	"	"	"	"	"	
Ethylbenzene	ND	0.0051	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0051	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.2 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N1 10
T194106-51 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 1
T194106-54 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	150	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		101 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	48	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	33	2.0	"	"	"	"	"	"	
Cobalt	6.7	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	6.5	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	30	5.0	"	"	"	"	"	"	
Zinc	45	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 1
T194106-54 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0048	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0048	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0048	"	"	"	"	"	"	
Bromoform	ND	0.0048	"	"	"	"	"	"	
Bromomethane	ND	0.0048	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0048	"	"	"	"	"	"	
Chlorobenzene	ND	0.0048	"	"	"	"	"	"	
Chloroethane	ND	0.0048	"	"	"	"	"	"	
Chloroform	ND	0.0048	"	"	"	"	"	"	
Chloromethane	ND	0.0048	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0096	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0048	"	"	"	"	"	"	
Dibromomethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 1
T194106-54 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0048	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0048	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0048	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0048	"	"	"	"	"	"	
Methylene chloride	ND	0.0048	"	"	"	"	"	"	
Naphthalene	ND	0.0048	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0048	"	"	"	"	"	"	
Styrene	ND	0.0048	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0048	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
Vinyl chloride	ND	0.0048	"	"	"	"	"	"	
Benzene	ND	0.0048	"	"	"	"	"	"	
Toluene	ND	0.0048	"	"	"	"	"	"	
Ethylbenzene	ND	0.0048	"	"	"	"	"	"	
m,p-Xylene	ND	0.0096	"	"	"	"	"	"	
o-Xylene	ND	0.0048	"	"	"	"	"	"	
Surrogate: Toluene-d8		83.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		99.2 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 1
T194106-54 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 5
T194106-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B
C13-C28 (DRO)	ND	10	"	"	"	"	"	"
C29-C40 (MORO)	ND	10	"	"	"	"	"	"

Surrogate: *p*-Terphenyl 101 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b
Silver	ND	2.0	"	"	"	"	"	"
Arsenic	ND	5.0	"	"	"	"	"	"
Barium	29	1.0	"	"	"	"	"	"
Beryllium	ND	1.0	"	"	"	"	"	"
Cadmium	ND	2.0	"	"	"	"	"	"
Chromium	12	2.0	"	"	"	"	"	"
Cobalt	5.2	2.0	"	"	"	"	"	"
Copper	11	1.0	"	"	"	"	"	"
Lead	3.9	3.0	"	"	"	"	"	"
Molybdenum	ND	5.0	"	"	"	"	"	"
Nickel	8.0	2.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Thallium	ND	5.0	"	"	"	"	"	"
Vanadium	23	5.0	"	"	"	"	"	"
Zinc	25	1.0	"	"	"	"	"	"

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 5
T194106-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0090	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 5
T194106-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0090	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		85.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		96.6 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 5
T194106-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 10
T194106-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9112709	11/27/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		106 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9112712	11/27/19	12/03/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	29	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/03/19	"	
Cadmium	ND	2.0	"	"	"	"	12/03/19	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	7.7	1.0	"	"	"	"	"	"	
Lead	3.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	25	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9112714	11/27/19	12/02/19	EPA 7471A Soil	
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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 10
T194106-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0047	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0047	"	"	"	"	"	"	
Bromoform	ND	0.0047	"	"	"	"	"	"	
Bromomethane	ND	0.0047	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0047	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0047	"	"	"	"	"	"	
Chlorobenzene	ND	0.0047	"	"	"	"	"	"	
Chloroethane	ND	0.0047	"	"	"	"	"	"	
Chloroform	ND	0.0047	"	"	"	"	"	"	
Chloromethane	ND	0.0047	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0047	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0093	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0047	"	"	"	"	"	"	
Dibromomethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0047	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0047	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0047	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0047	"	"	"	"	"	"	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 10
T194106-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0047	mg/kg	1	9120223	12/02/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0047	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0047	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0047	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0047	"	"	"	"	"	"	
Methylene chloride	ND	0.0047	"	"	"	"	"	"	
Naphthalene	ND	0.0047	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0047	"	"	"	"	"	"	
Styrene	ND	0.0047	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0047	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0047	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0047	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0047	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0047	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0047	"	"	"	"	"	"	
Vinyl chloride	ND	0.0047	"	"	"	"	"	"	
Benzene	ND	0.0047	"	"	"	"	"	"	
Toluene	ND	0.0047	"	"	"	"	"	"	
Ethylbenzene	ND	0.0047	"	"	"	"	"	"	
m,p-Xylene	ND	0.0093	"	"	"	"	"	"	
o-Xylene	ND	0.0047	"	"	"	"	"	"	
Surrogate: Toluene-d8		78.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

SB15 N2 10
T194106-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112707 - EPA 3550B GC

Blank (9112707-BLK1)

Prepared: 11/27/19 Analyzed: 12/02/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	77.3		"	102		75.7	65-135			

LCS (9112707-BS1)

Prepared: 11/27/19 Analyzed: 12/02/19

C13-C28 (DRO)	420	10	mg/kg	510		82.9	75-125			
Surrogate: <i>p</i> -Terphenyl	79.5		"	102		77.9	65-135			

LCS Dup (9112707-BSD1)

Prepared: 11/27/19 Analyzed: 12/02/19

C13-C28 (DRO)	410	10	mg/kg	510		81.3	75-125	1.88	20	
Surrogate: <i>p</i> -Terphenyl	76.4		"	102		74.9	65-135			

Batch 9112709 - EPA 3550B GC

Blank (9112709-BLK1)

Prepared: 11/27/19 Analyzed: 12/02/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	108		"	102		106	65-135			

LCS (9112709-BS1)

Prepared: 11/27/19 Analyzed: 12/02/19

C13-C28 (DRO)	510	10	mg/kg	510		100	75-125			
Surrogate: <i>p</i> -Terphenyl	106		"	102		104	65-135			

LCS Dup (9112709-BSD1)

Prepared: 11/27/19 Analyzed: 12/02/19

C13-C28 (DRO)	520	10	mg/kg	510		102	75-125	2.05	20	
Surrogate: <i>p</i> -Terphenyl	105		"	102		103	65-135			

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Project Number: SM19-259094
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Reported:
12/13/19 16:03

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121130 - EPA 3550B GC

Blank (9121130-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	99.8		"	99.0		101	65-135			

LCS (9121130-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

C13-C28 (DRO)	470	10	mg/kg	495		94.6	75-125			
Surrogate: <i>p</i> -Terphenyl	93.2		"	99.0		94.2	65-135			

LCS Dup (9121130-BSD1)

Prepared: 12/11/19 Analyzed: 12/12/19

C13-C28 (DRO)	490	10	mg/kg	495		98.4	75-125	3.91	20	
Surrogate: <i>p</i> -Terphenyl	93.1		"	99.0		94.0	65-135			

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112711 - EPA 3050B

Blank (9112711-BLK1)

Prepared: 11/27/19 Analyzed: 12/03/19

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	5.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (9112711-BS1)

Prepared: 11/27/19 Analyzed: 12/03/19

Arsenic	112	5.0	mg/kg	93.5	119	75-125
Barium	116	1.0	"	93.5	124	75-125
Cadmium	113	2.0	"	93.5	121	75-125
Chromium	116	2.0	"	93.5	124	75-125
Lead	114	3.0	"	93.5	122	75-125

Matrix Spike (9112711-MS1)

Source: T194106-22

Prepared: 11/27/19 Analyzed: 12/03/19

Arsenic	90.8	5.0	mg/kg	100	2.43	88.3	75-125
Barium	120	1.0	"	100	50.7	68.9	75-125
Cadmium	85.2	2.0	"	100	0.315	84.9	75-125
Chromium	95.6	2.0	"	100	8.25	87.3	75-125
Lead	88.9	3.0	"	100	6.07	82.8	75-125

QM-05

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112711 - EPA 3050B

Matrix Spike Dup (9112711-MSD1)

Source: T194106-22

Prepared: 11/27/19 Analyzed: 12/03/19

Arsenic	87.1	5.0	mg/kg	95.2	2.43	88.9	75-125	4.10	20	
Barium	110	1.0	"	95.2	50.7	62.4	75-125	8.26	20	QM-05
Cadmium	79.6	2.0	"	95.2	0.315	83.2	75-125	6.81	20	
Chromium	91.2	2.0	"	95.2	8.25	87.1	75-125	4.69	20	
Lead	85.1	3.0	"	95.2	6.07	82.9	75-125	4.43	20	

Batch 9112712 - EPA 3050B

Blank (9112712-BLK1)

Prepared: 11/27/19 Analyzed: 12/03/19

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	5.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (9112712-BS1)

Prepared: 11/27/19 Analyzed: 12/03/19

Arsenic	102	5.0	mg/kg	100	102	75-125
Barium	100	1.0	"	100	100	75-125
Cadmium	101	2.0	"	100	101	75-125
Chromium	100	2.0	"	100	100	75-125
Lead	101	3.0	"	100	101	75-125

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112712 - EPA 3050B

Matrix Spike (9112712-MS1)

Source: T194106-38

Prepared: 11/27/19 Analyzed: 12/03/19

Arsenic	98.0	5.0	mg/kg	99.0	2.56	96.4	75-125			
Barium	127	1.0	"	99.0	35.0	93.2	75-125			
Cadmium	92.9	2.0	"	99.0	0.354	93.4	75-125			
Chromium	107	2.0	"	99.0	17.3	90.5	75-125			
Lead	93.2	3.0	"	99.0	3.82	90.2	75-125			

Matrix Spike Dup (9112712-MSD1)

Source: T194106-38

Prepared: 11/27/19 Analyzed: 12/03/19

Arsenic	88.4	5.0	mg/kg	100	2.56	85.9	75-125	10.3	20	
Barium	117	1.0	"	100	35.0	82.3	75-125	8.09	20	
Cadmium	85.1	2.0	"	100	0.354	84.8	75-125	8.72	20	
Chromium	96.9	2.0	"	100	17.3	79.6	75-125	9.78	20	
Lead	84.8	3.0	"	100	3.82	81.0	75-125	9.39	20	

Batch 9121118 - EPA 3050B

Blank (9121118-BLK1)

Prepared: 12/11/19 Analyzed: 12/12/19

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121118 - EPA 3050B

LCS (9121118-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	105	5.0	mg/kg	100		105	75-125			
Barium	107	1.0	"	100		107	75-125			
Cadmium	106	2.0	"	100		106	75-125			
Chromium	106	2.0	"	100		106	75-125			
Lead	106	3.0	"	100		106	75-125			

Matrix Spike (9121118-MS1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	79.3	5.0	mg/kg	92.6	ND	85.6	75-125			
Barium	212	1.0	"	92.6	87.1	135	75-125			QM-05
Cadmium	79.0	2.0	"	92.6	2.02	83.2	75-125			
Chromium	148	2.0	"	92.6	89.7	62.8	75-125			QM-05
Lead	97.5	3.0	"	92.6	29.0	73.9	75-125			QM-05

Matrix Spike Dup (9121118-MSD1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Arsenic	83.7	5.0	mg/kg	100	ND	83.7	75-125	5.48	20	
Barium	165	1.0	"	100	87.1	78.0	75-125	25.1	20	QM-05
Cadmium	85.5	2.0	"	100	2.02	83.5	75-125	7.93	20	
Chromium	140	2.0	"	100	89.7	49.8	75-125	5.83	20	QM-05
Lead	97.4	3.0	"	100	29.0	68.4	75-125	0.0953	20	QM-05

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12/13/19 16:03

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112710 - EPA 7471A Soil

Blank (9112710-BLK1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	ND	0.10	mg/kg							
LCS (9112710-BS1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	0.396	0.10	mg/kg	0.397		99.8	80-120			
Matrix Spike (9112710-MS1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	0.394	0.10	mg/kg	0.385	ND	102	75-125			
Matrix Spike Dup (9112710-MSD1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	0.396	0.10	mg/kg	0.403	ND	98.2	75-125	0.528	20	

Batch 9112714 - EPA 7471A Soil

Blank (9112714-BLK1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	ND	0.10	mg/kg							
LCS (9112714-BS1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	0.405	0.10	mg/kg	0.403		100	80-120			
Matrix Spike (9112714-MS1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	0.405	0.10	mg/kg	0.417	0.0788	78.2	75-125			
Matrix Spike Dup (9112714-MSD1)				Prepared: 11/27/19 Analyzed: 12/02/19						
Mercury	0.389	0.10	mg/kg	0.403	0.0788	76.8	75-125	4.04	20	

Batch 9121117 - EPA 7471A Soil

Blank (9121117-BLK1)				Prepared: 12/11/19 Analyzed: 12/12/19						
Mercury	ND	0.10	mg/kg							

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121117 - EPA 7471A Soil

LCS (9121117-BS1)

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	0.403	0.10	mg/kg	0.403		100	80-120			
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Matrix Spike (9121117-MS1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	0.422	0.10	mg/kg	0.410	ND	103	75-125			
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Matrix Spike Dup (9121117-MSD1)

Source: T194052-36

Prepared: 12/11/19 Analyzed: 12/12/19

Mercury	0.126	0.10	mg/kg	0.410	ND	30.8	75-125	108	20	QM-05
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Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120222 - EPA 5035 GCMS

Blank (9120222-BLK1)

Prepared: 12/02/19 Analyzed: 12/05/19

Bromobenzene	ND	0.0050	mg/kg
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
n-Butylbenzene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120222 - EPA 5035 GCMS

Blank (9120222-BLK1)

Prepared: 12/02/19 Analyzed: 12/05/19

p-Isopropyltoluene	ND	0.0050	mg/kg							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0030	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0030	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							

Surrogate: Toluene-d8	0.0375		"	0.0400	93.8	76.1-127
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400	92.9	85.9-114
Surrogate: Dibromofluoromethane	0.0370		"	0.0400	92.4	77.8-142

LCS (9120222-BS1)

Prepared: 12/02/19 Analyzed: 12/05/19

Chlorobenzene	0.0807	0.0050	mg/kg	0.100	80.7	75-125
1,1-Dichloroethene	0.0858	0.0050	"	0.100	85.8	75-125
Trichloroethene	0.0843	0.0030	"	0.100	84.3	75-125
Benzene	0.0834	0.0050	"	0.100	83.4	75-125
Toluene	0.0838	0.0050	"	0.100	83.8	75-125
Surrogate: Toluene-d8	0.0369		"	0.0400	92.4	76.1-127
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400	95.8	85.9-114
Surrogate: Dibromofluoromethane	0.0373		"	0.0400	93.3	77.8-142

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Project Manager: David Horrell

Reported:
12/13/19 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120222 - EPA 5035 GCMS

LCS Dup (9120222-BSD1)

Prepared: 12/02/19 Analyzed: 12/05/19

Chlorobenzene	0.0824	0.0050	mg/kg	0.100		82.4	75-125	2.16	20	
1,1-Dichloroethene	0.0883	0.0050	"	0.100		88.3	75-125	2.94	20	
Trichloroethene	0.0888	0.0030	"	0.100		88.8	75-125	5.22	20	
Benzene	0.0905	0.0050	"	0.100		90.5	75-125	8.19	20	
Toluene	0.0900	0.0050	"	0.100		90.0	75-125	7.07	20	
Surrogate: Toluene-d8	0.0370		"	0.0400		92.4	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	85.9-114			
Surrogate: Dibromofluoromethane	0.0372		"	0.0400		93.1	77.8-142			

Batch 9120223 - EPA 5035 GCMS

Blank (9120223-BLK1)

Prepared: 12/02/19 Analyzed: 12/04/19

Bromobenzene	ND	0.0050	mg/kg							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							

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Project Number: SM19-259094
Project Manager: David Horrell

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12/13/19 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120223 - EPA 5035 GCMS

Blank (9120223-BLK1)

Prepared: 12/02/19 Analyzed: 12/04/19

1,2-Dichloroethane	ND	0.0050	mg/kg
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
p-Isopropyltoluene	ND	0.0050	"
Methylene chloride	ND	0.0050	"
Naphthalene	ND	0.0050	"
n-Propylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"
Tetrachloroethene	ND	0.0030	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1,1-Trichloroethane	ND	0.0050	"
Trichloroethene	ND	0.0030	"
Trichlorofluoromethane	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
1,2,4-Trimethylbenzene	ND	0.0050	"
Vinyl chloride	ND	0.0050	"
Benzene	ND	0.0050	"
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
m,p-Xylene	ND	0.010	"
o-Xylene	ND	0.0050	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120223 - EPA 5035 GCMS

Blank (9120223-BLK1)

Prepared: 12/02/19 Analyzed: 12/04/19

Surrogate: Toluene-d8	0.0993		mg/kg	0.100		99.3	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.100		110	85.9-114			
Surrogate: Dibromofluoromethane	0.0889		"	0.100		88.9	77.8-142			

LCS (9120223-BS1)

Prepared: 12/02/19 Analyzed: 12/04/19

Chlorobenzene	0.0984	0.0050	mg/kg	0.100		98.4	75-125			
1,1-Dichloroethene	0.0760	0.0050	"	0.100		76.0	75-125			
Trichloroethene	0.0955	0.0030	"	0.100		95.5	75-125			
Benzene	0.0885	0.0050	"	0.100		88.5	75-125			
Toluene	0.0902	0.0050	"	0.100		90.2	75-125			
Surrogate: Toluene-d8	0.0963		"	0.100		96.3	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.100		104	85.9-114			
Surrogate: Dibromofluoromethane	0.0922		"	0.100		92.2	77.8-142			

LCS Dup (9120223-BS1)

Prepared: 12/02/19 Analyzed: 12/05/19

Chlorobenzene	0.0977	0.0050	mg/kg	0.100		97.7	75-125	0.694	20	
1,1-Dichloroethene	0.0763	0.0050	"	0.100		76.3	75-125	0.420	20	
Trichloroethene	0.0914	0.0030	"	0.100		91.4	75-125	4.39	20	
Benzene	0.0860	0.0050	"	0.100		86.0	75-125	2.86	20	
Toluene	0.0901	0.0050	"	0.100		90.1	75-125	0.111	20	
Surrogate: Toluene-d8	0.0999		"	0.100		99.9	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.100		103	85.9-114			
Surrogate: Dibromofluoromethane	0.0911		"	0.100		91.1	77.8-142			

Batch 9121042 - EPA 5035 GCMS

Blank (9121042-BLK1)

Prepared: 12/10/19 Analyzed: 12/12/19

Bromobenzene	ND	0.0025	mg/kg							
Bromochloromethane	ND	0.0025	"							
Bromodichloromethane	ND	0.0025	"							
Bromoform	ND	0.0025	"							
Bromomethane	ND	0.0025	"							
n-Butylbenzene	ND	0.0025	"							
sec-Butylbenzene	ND	0.0025	"							
tert-Butylbenzene	ND	0.0025	"							
Carbon tetrachloride	ND	0.0025	"							

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Project Manager: David Horrell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121042 - EPA 5035 GCMS

Blank (9121042-BLK1)

Prepared: 12/10/19 Analyzed: 12/12/19

Chlorobenzene	ND	0.0025	mg/kg
Chloroethane	ND	0.0025	"
Chloroform	ND	0.0025	"
Chloromethane	ND	0.0025	"
2-Chlorotoluene	ND	0.0025	"
4-Chlorotoluene	ND	0.0025	"
Dibromochloromethane	ND	0.0025	"
1,2-Dibromo-3-chloropropane	ND	0.0050	"
1,2-Dibromoethane (EDB)	ND	0.0025	"
Dibromomethane	ND	0.0025	"
1,2-Dichlorobenzene	ND	0.0025	"
1,3-Dichlorobenzene	ND	0.0025	"
1,4-Dichlorobenzene	ND	0.0025	"
Dichlorodifluoromethane	ND	0.0025	"
1,1-Dichloroethane	ND	0.0025	"
1,2-Dichloroethane	ND	0.0025	"
1,1-Dichloroethene	ND	0.0025	"
cis-1,2-Dichloroethene	ND	0.0025	"
trans-1,2-Dichloroethene	ND	0.0025	"
1,2-Dichloropropane	ND	0.0025	"
1,3-Dichloropropane	ND	0.0025	"
2,2-Dichloropropane	ND	0.0025	"
1,1-Dichloropropene	ND	0.0025	"
cis-1,3-Dichloropropene	ND	0.0025	"
trans-1,3-Dichloropropene	ND	0.0025	"
Hexachlorobutadiene	ND	0.0025	"
Isopropylbenzene	ND	0.0025	"
p-Isopropyltoluene	ND	0.0025	"
Methylene chloride	ND	0.0025	"
Naphthalene	ND	0.0025	"
n-Propylbenzene	ND	0.0025	"
Styrene	ND	0.0025	"
1,1,2,2-Tetrachloroethane	ND	0.0025	"
1,1,1,2-Tetrachloroethane	ND	0.0025	"
Tetrachloroethene	ND	0.0015	"
1,2,3-Trichlorobenzene	ND	0.0025	"

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121042 - EPA 5035 GCMS

Blank (9121042-BLK1)

Prepared: 12/10/19 Analyzed: 12/12/19

1,2,4-Trichlorobenzene	ND	0.0025	mg/kg							
1,1,2-Trichloroethane	ND	0.0025	"							
1,1,1-Trichloroethane	ND	0.0025	"							
Trichloroethene	ND	0.0015	"							
Trichlorofluoromethane	ND	0.0025	"							
1,2,3-Trichloropropane	ND	0.0025	"							
1,3,5-Trimethylbenzene	ND	0.0025	"							
1,2,4-Trimethylbenzene	ND	0.0025	"							
Vinyl chloride	ND	0.0025	"							
Benzene	ND	0.0025	"							
Toluene	ND	0.0025	"							
Ethylbenzene	ND	0.0025	"							
m,p-Xylene	ND	0.0050	"							
o-Xylene	ND	0.0025	"							
Tert-amyl methyl ether	ND	0.010	"							
Tert-butyl alcohol	ND	0.025	"							
Di-isopropyl ether	ND	0.010	"							
Ethyl tert-butyl ether	ND	0.010	"							
Methyl tert-butyl ether	ND	0.010	"							
Surrogate: Toluene-d8	0.0159		"	0.0200		79.5	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0141		"	0.0200		70.5	85.9-114			S-GC
Surrogate: Dibromofluoromethane	0.0152		"	0.0200		76.0	77.8-142			S-GC

LCS (9121042-BS1)

Prepared: 12/10/19 Analyzed: 12/12/19

Chlorobenzene	0.0434	0.0025	mg/kg	0.0500		86.8	75-125			
1,1-Dichloroethene	0.0495	0.0025	"	0.0500		99.0	70-125			
Trichloroethene	0.0441	0.0015	"	0.0500		88.3	75-125			
Benzene	0.0513	0.0025	"	0.0500		103	75-125			
Toluene	0.0506	0.0025	"	0.0500		101	75-125			
Surrogate: Toluene-d8	0.0159		"	0.0200		79.4	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0142		"	0.0200		71.0	85.9-114			S-GC
Surrogate: Dibromofluoromethane	0.0153		"	0.0200		76.6	77.8-142			S-GC

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Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/13/19 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121042 - EPA 5035 GCMS

LCS Dup (9121042-BSD1)

Prepared: 12/10/19 Analyzed: 12/12/19

Chlorobenzene	0.0399	0.0025	mg/kg	0.0500		79.8	75-125	8.45	20	
1,1-Dichloroethene	0.0429	0.0025	"	0.0500		85.8	70-125	14.2	20	
Trichloroethene	0.0408	0.0015	"	0.0500		81.7	75-125	7.72	20	
Benzene	0.0467	0.0025	"	0.0500		93.4	75-125	9.44	20	
Toluene	0.0466	0.0025	"	0.0500		93.1	75-125	8.28	20	
Surrogate: Toluene-d8	0.0156		"	0.0200		78.2	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0146		"	0.0200		72.8	85.9-114			S-GC
Surrogate: Dibromofluoromethane	0.0157		"	0.0200		78.4	77.8-142			

SunStar Laboratories, Inc.

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1761 E. Garry Ave.
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Reported:
12/13/19 16:03

Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

RE-01 Sample contained analytes with concentrations above calibration limits and was rerun at a dilution.

R-07 Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

O-05 This sample was extracted outside of the EPA recommended holding time.

I-02 This result was analyzed outside of the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Chain of Custody Record

Client: PARTNER ENGINEERING & SCIENCE
Address: 1761 E. GARRY AVE, SANTA ANA, CA
Phone: 802-765-7187 Fax: _____
Project Manager: DAVID NORRELL

Date: 11.26.19 Page: 1 Of 4
Project Name: WHITTRAM MONTANA
Collector: DA/MJ Client Project #: SM19-259101A
Batch #: T194106 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
SBB WZ 1'	11.21.19	1445	SOIL	JAR/VOL	X							X	X		01		4
SBB WZ 5'		1453			X							X	X		02		4
SBB WZ 10'		1508			X							X	X		03		4
SBB WZ 15'		1516													04	HOLD	4
SBB WZ 25'															05	HOLD	4
SBB SI 1'	11.22.19	0815			X							X	X		06		4
SBB SI 5'		0825			X							X	X		07		4
SBB SI 10'		0832			X							X	X		08		4
SBB SI 15'		0844													09	HOLD	4
SBB SI 20'		0905													10	HOLD	4
SBB S2 1'		0948			X							X	X		11		4
SBB S2 5'		0954			X							X	X		12		4
SBB S2 10'		1004			X							X	X		13		4
SBB S2 15'		1010													14	HOLD	4
SBB S2 25'		1146													15	HOLD	4
Relinquished by: (signature) <u>David Norrell</u> Date / Time <u>11/26/19 1745</u>					Received by: (signature) <u>[Signature]</u> Date / Time <u>11-26-19 17:45</u>					Total # of containers					Notes		
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Chain of Custody seals Y/N/NA <u>NA</u>							
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Seals intact? Y/N/NA <u>NA</u>							
										Received good condition/cold <u>3.5°C</u>							
										Turn around time: <u>Std.</u>							

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 161522

Chain of Custody Record

Client: PARTNER BSI
 Address: 1761 E GARRY AV, SANTA ANA, CA
 Phone: 949 265 7187 Fax: _____
 Project Manager: DAVID HORRELL

Date: 11.26.19 Page: 2 Of 4
 Project Name: WHITTRAM FONTANA
 Collector: DA/NW Client Project #: SM19-259004
 Batch #: 1194106 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
SBB E2 1'	11.22.19	1340	SOIL	JAR/VOLS	✓							✓	✓		16		4
SBB E2 5'		1348			✓							✓	✓		17		4
SBB E2 10'		1400			✓							✓	✓		18		4
SBB E2 15'		1405													19	HOLD	4
SBB E2 20'		1412													20	HOLD	4
SBB E1 1'		1432			✓							✓	✓		21		4
SBB E1 5'		1442			✓							✓	✓		22		4
SBB E1 10'		1450			✓							✓	✓		23		4
SBB E1 15'		1451													24	HOLD	4
SBB E1 20'	✓	1515													25	HOLD	4
SBS W2 1'	11.25.19	0730			✓							✓	✓		26		4
SBS W2 5'		0738			✓							✓	✓		27		4
SBS W2 10'		0742			✓							✓	✓		28		4
SBS W2 15'		0812													29	HOLD	4
SBB E2 1'	✓	0858	✓	✓											30		4

Relinquished by: (signature) <i>David Horrell</i>	Date / Time 11/26/19 1745	Received by: (signature) <i>[Signature]</i>	Date / Time 11-26-19 17:45	Total # of containers	Notes
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA	
				Received good condition/cold	35°C
				Turn around time: <u>Std.</u>	

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 161523

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11.26.19 Page: 3 Of 4
Project Name: Whittram Fontana
Collector: MW Client Project #: SM19-259094
Batch #: T194106 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
31	SB2 S2 S1	11.25.19	0904	SOIL	JAR/NOAS	X							X	X				4
32	SB2 S2 10'		0912			X							X	X				4
33	SB2 S2 15'		0919															4
34	SB2 S2 25'		0928															4
35	SB15 S2 1'		1148			X							X	X				4
36	SB15 S2 5'		1202			X							X	X				4
37	SB15 S1 1'		1335			X							X	X				4
38	SB15 W1 1'		1400			X							X	X				4
39	SB15 W1 4'		1430			X							X	X				4
40	SB15 E2 1'	11.26.19	0720			X							X	X				4
41	SB15 E2 5'		0733			X							X	X				4
42	SB15 E2 10'		0738			X							X	X				4
43	SB15 E2 15'		0747															4
44	SB15 E2 20'		0753															4
45	SB15 E1 1'		0815			X							X	X				4
Relinquished by: (signature) <u>David Horrell</u> Date / Time <u>11/26/19 @ 1745</u>						Received by: (signature) <u>[Signature]</u> Date / Time <u>11-26-19 17:45</u>						Total # of containers		Notes				
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Chain of Custody seals Y/N/NA						
												Seals intact? Y/N/NA						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Received good condition/cold		3.5°				
												Turn around time: <u>std.</u>						

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190173



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: PARTNER ESI
Address: 1761 E. GARRY AV, SANTA ANA, CA
Phone: 949-265-7871 Fax: _____
Project Manager: DAVID HOPPELL

Date: 11.26.19 Page: 4 Of 4
Project Name: WHITTRAM FONTANA
Collector: DH/MW Client Project #: SM19-259024
Batch #: 7194106 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
46	SBIS EI 5'	11.26.19	0900	Boil	he/na	X							X	X				4
47	SBIS EI 10'		0908			X							X	X				4
48	SBIS EI 15'		0920										X	X	PH		HOLD	4
49	SBIS NI 1'		1005			X							X	X				4
50	SBIS NI 5'		1010			X							X	X				4
51	SBIS NI 10'		1018			X							X	X				4
52	SBIS NI 15'		1022										X	X	PH		HOLD	4
53	SBIS NI 25'		1035										X	X			HOLD	4
54	SBIS NZ 1'		1105			X							X	X				4
55	SBIS NZ 5'		1112			X							X	X				4
56	SBIS NZ 10'		1116			X							X	X				4
57	SBIS NZ 15'		1125														HOLD	4
																		4
																		4
																		4

Relinquished by: (signature) <u>Paul Hoppe</u>	Date / Time <u>11/26/19 @ 1745</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>11/26/19 1745</u>	Total # of containers <u>4</u>	Notes
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Received good condition/cold <u>3.5°C</u>	Turn around time: <u>std.</u>

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190172

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7794106

Client Name: PARTNER - SANTA ANA Project: UNITRAM FONTANA

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 11-26-19 / 18:05

Total number of coolers received: 0 Thermometer ID: 56-1 Calibration due: 6/27/20

Temperature: Cooler #1 <u>2.3</u>	°C +/- the CF (+ 1.2°C) = <u>3.5</u>	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 1.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 1.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☒ No*

Total number of containers received match COC ☒ Yes ☒ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☒ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 11-26-19

Comments: _____

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7194106
COOLERS

- ☐ Not Received (received COC only)
☐ Leaking/Damaged
☐ Other:

CUSTODY SEALS

- ☐ None
☐ Not Intact

TEMPERATURE (Temp criteria $\leq 6^{\circ}\text{C}$)

- ☐ Cooler/Sample Temp(s)
☐ Temperature Blank(s)

CHAIN OF CUSTODY (COC)
☐ Not relinquished by client; No date/time
relinquished

- ☐ Incomplete information provided
☐ COC not received – notify PM

CONTAINERS

- ☐ Leaking ☐ Broken
☐ Extra ☐ Missing

LABELS

- ☒ Not the same sample ID / info as on the COC
☐ Incomplete Information
☐ Markings/Info illegible

SAMPLES

- ☐ Samples **NOT RECEIVED** but listed on COC
☒ Samples received but **NOT LISTED** on COC
☐ Logged based on Label Information and not COC
☐ Logged according to Work Plan and not COC
☐ Logged in, **ON HOLD** until further notice
☐ Insufficient quantities for analysis
☐ Improper container used

- ☐ Mislabeled as to tests, preservatives, etc.
☐ Holding time expired – list sample ID and test
☐ Not preserved/Improper preservative used
☐ Without Labels, no information on containers
☐ VOA vial(s) containing headspace >6mm
☐ Other

Project Manager notified of sample non-conformance(s)

☒ Yes ☐ No

All samples accepted for processing and distributing to laboratory(ies)

☒ Yes ☐ No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments: SAMPLE CONTAINERS FOR (SBB SI 10, SBB SI 15, SBB SI 20, SBB SI 1, SBB SI 5, SBB SI 10, AND SBB SI 25)
WERE MISLABELED. (SBI5 NR 25) IS NOT LISTED ON COC. CONTAINERS FOR (SBI5 SI 1 & SBI5 W1 1) WERE
ALSO MISLABELED. WE LABELED THESE CONTAINERS ACCORDING TO TIME.

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/06/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/26/19 17:45

Logged In By: Sunny Lounethone

Date Logged In: 11/27/19 09:17

Samples Received at: 3.5°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T194106-01 SB8 W2 1 [Soil] Sampled 11/21/19 14:45 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	05/19/20 14:45
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 14:45
8260 5035	12/06/19 15:00	5	12/05/19 14:45

T194106-02 SB8 W2 5 [Soil] Sampled 11/21/19 14:58 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	05/19/20 14:58
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 14:58
8260 5035	12/06/19 15:00	5	12/05/19 14:58

T194106-03 SB8 W2 10 [Soil] Sampled 11/21/19 15:08 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	05/19/20 15:08
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 15:08
8260 5035	12/06/19 15:00	5	12/05/19 15:08

T194106-04 SB8 W2 15 [Soil] Sampled 11/21/19 15:16 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194106-05 SB8 W2 26 [Soil] Sampled 11/21/19 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-06 SB8 S1 1 [Soil] Sampled 11/22/19 08:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 08:15	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:15	
8260 5035	12/06/19 15:00	5	12/06/19 08:15	
T194106-07 SB8 S1 5 [Soil] Sampled 11/22/19 08:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 08:25	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:25	
8260 5035	12/06/19 15:00	5	12/06/19 08:25	
T194106-08 SB8 S1 10 [Soil] Sampled 11/22/19 08:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 08:32	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:32	
8260 5035	12/06/19 15:00	5	12/06/19 08:32	
T194106-09 SB8 S1 15 [Soil] Sampled 11/22/19 08:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-10 SB8 S1 20 [Soil] Sampled 11/22/19 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-11 SB8 S2 1 [Soil] Sampled 11/22/19 09:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 09:48	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 09:48	
8260 5035	12/06/19 15:00	5	12/06/19 09:48	
T194106-12 SB8 S2 5 [Soil] Sampled 11/22/19 09:54 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 09:54	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 09:54	
8260 5035	12/06/19 15:00	5	12/06/19 09:54	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-13 SB8 S2 10 [Soil] Sampled 11/22/19 10:04 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 10:04	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 10:04	
8260 5035	12/06/19 15:00	5	12/06/19 10:04	
T194106-14 SB8 S2 15 [Soil] Sampled 11/22/19 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-15 SB8 S2 25 [Soil] Sampled 11/22/19 11:46 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-16 SB8 E2 1 [Soil] Sampled 11/22/19 13:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 13:40	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 13:40	
8260 5035	12/06/19 15:00	5	12/06/19 13:40	
T194106-17 SB8 E2 5 [Soil] Sampled 11/22/19 13:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 13:48	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 13:48	
8260 5035	12/06/19 15:00	5	12/06/19 13:48	
T194106-18 SB8 E2 10 [Soil] Sampled 11/22/19 14:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 14:00	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:00	
8260 5035	12/06/19 15:00	5	12/06/19 14:00	
T194106-19 SB8 E2 15 [Soil] Sampled 11/22/19 14:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-20 SB8 E2 20 [Soil] Sampled 11/22/19 14:12 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-21 SB8 E1 1 [Soil] Sampled 11/22/19 14:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 14:32	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:32	
8260 5035	12/06/19 15:00	5	12/06/19 14:32	
T194106-22 SB8 E1 5 [Soil] Sampled 11/22/19 14:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 14:42	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:42	
8260 5035	12/06/19 15:00	5	12/06/19 14:42	
T194106-23 SB8 E1 10 [Soil] Sampled 11/22/19 14:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/20/20 14:50	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:50	
8260 5035	12/06/19 15:00	5	12/06/19 14:50	
T194106-24 SB8 E1 15 [Soil] Sampled 11/22/19 14:59 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-25 SB8 E1 20 [Soil] Sampled 11/22/19 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-26 SB15 W2 1 [Soil] Sampled 11/25/19 07:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 07:30	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:30	
8260 5035	12/06/19 15:00	5	12/09/19 07:30	
T194106-27 SB15 W2 5 [Soil] Sampled 11/25/19 07:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 07:38	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:38	
8260 5035	12/06/19 15:00	5	12/09/19 07:38	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-28 SB15 W2 10 [Soil] Sampled 11/25/19 07:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 07:42	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:42	
8260 5035	12/06/19 15:00	5	12/09/19 07:42	
T194106-29 SB15 W2 15 [Soil] Sampled 11/25/19 08:12 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-30 SB2 S2 1 [Soil] Sampled 11/25/19 08:58 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-31 SB2 S2 5 [Soil] Sampled 11/25/19 09:04 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 09:04	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 09:04	
8260 5035	12/06/19 15:00	5	12/09/19 09:04	
T194106-32 SB2 S2 10 [Soil] Sampled 11/25/19 09:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 09:12	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 09:12	
8260 5035	12/06/19 15:00	5	12/09/19 09:12	
T194106-33 SB2 S2 15 [Soil] Sampled 11/25/19 09:19 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-34 SB2 S2 25 [Soil] Sampled 11/25/19 09:28 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-35 SB15 S2 1 [Soil] Sampled 11/25/19 11:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 11:48	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 11:48	
8260 5035	12/06/19 15:00	5	12/09/19 11:48	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-36 SB15 S2 5 [Soil] Sampled 11/25/19 12:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 12:02	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 12:02	
8260 5035	12/06/19 15:00	5	12/09/19 12:02	
T194106-37 SB15 S1 1 [Soil] Sampled 11/25/19 13:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 13:25	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 13:25	
8260 5035	12/06/19 15:00	5	12/09/19 13:25	
T194106-38 SB15 W1 1 [Soil] Sampled 11/25/19 14:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 14:00	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 14:00	
8260 5035	12/06/19 15:00	5	12/09/19 14:00	
T194106-39 SB15 W1 4 [Soil] Sampled 11/25/19 14:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 14:30	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 14:30	
8260 5035	12/06/19 15:00	5	12/09/19 14:30	
T194106-40 SB15 E2 1 [Soil] Sampled 11/26/19 07:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 07:20	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:20	
8260 5035	12/06/19 15:00	5	12/10/19 07:20	
T194106-41 SB15 E2 5 [Soil] Sampled 11/26/19 07:33 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 07:33	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:33	
8260 5035	12/06/19 15:00	5	12/10/19 07:33	
T194106-42 SB15 E2 10 [Soil] Sampled 11/26/19 07:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 07:38	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:38	
8260 5035	12/06/19 15:00	5	12/10/19 07:38	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-43 SB15 E2 15 [Soil] Sampled 11/26/19 07:47 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194106-44 SB15 E2 20 [Soil] Sampled 11/26/19 07:53 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194106-45 SB15 E1 1 [Soil] Sampled 11/26/19 08:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 08:15	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 08:15	
8260 5035	12/06/19 15:00	5	12/10/19 08:15	
T194106-46 SB15 E1 5 [Soil] Sampled 11/26/19 09:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 09:00	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 09:00	
8260 5035	12/06/19 15:00	5	12/10/19 09:00	
T194106-47 SB15 E1 10 [Soil] Sampled 11/26/19 09:08 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 09:08	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 09:08	
8260 5035	12/06/19 15:00	5	12/10/19 09:08	
T194106-48 SB15 E1 16 [Soil] Sampled 11/26/19 09:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194106-49 SB15 N1 1 [Soil] Sampled 11/26/19 10:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 10:05	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:05	
8260 5035	12/06/19 15:00	5	12/10/19 10:05	
T194106-50 SB15 N1 5 [Soil] Sampled 11/26/19 10:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 10:10	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:10	
8260 5035	12/06/19 15:00	5	12/10/19 10:10	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-51 SB15 N1 10 [Soil] Sampled 11/26/19 10:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 10:18	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:18	
8260 5035	12/06/19 15:00	5	12/10/19 10:18	
T194106-52 SB15 N1 15 [Soil] Sampled 11/26/19 10:22 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-53 SB15 N1 25 [Soil] Sampled 11/26/19 10:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-54 SB15 N2 1 [Soil] Sampled 11/26/19 11:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 11:05	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:05	
8260 5035	12/06/19 15:00	5	12/10/19 11:05	
T194106-55 SB15 N2 5 [Soil] Sampled 11/26/19 11:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 11:12	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:12	
8260 5035	12/06/19 15:00	5	12/10/19 11:12	
T194106-56 SB15 N2 10 [Soil] Sampled 11/26/19 11:16 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/24/20 11:16	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:16	
8260 5035	12/06/19 15:00	5	12/10/19 11:16	
T194106-57 SB15 N2 15 [Soil] Sampled 11/26/19 11:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-58 SB15 N2 25 [Soil] Sampled 11/26/19 11:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
				NOT LISTED ON COC.

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22

7470/71 Hg

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/06/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/26/19 17:45

Logged In By: Sunny Lounethone

Date Logged In: 11/27/19 09:17

Samples Received at: 3.5°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T194106-01 SB8 W2 1 [Soil] Sampled 11/21/19 14:45 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	11/26/19 14:45
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 14:45
8260 5035	12/06/19 15:00	5	12/05/19 14:45

T194106-02 SB8 W2 5 [Soil] Sampled 11/21/19 14:58 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	11/26/19 14:58
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 14:58
8260 5035	12/06/19 15:00	5	12/05/19 14:58

T194106-03 SB8 W2 10 [Soil] Sampled 11/21/19 15:08 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	11/26/19 15:08
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 15:08
8260 5035	12/06/19 15:00	5	12/05/19 15:08

T194106-04 SB8 W2 15 [Soil] Sampled 11/21/19 15:16 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194106-05 SB8 W2 26 [Soil] Sampled 11/21/19 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-06 SB8 S1 1 [Soil] Sampled 11/22/19 08:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 08:15	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:15	
8260 5035	12/06/19 15:00	5	12/06/19 08:15	
T194106-07 SB8 S1 5 [Soil] Sampled 11/22/19 08:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 08:25	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:25	
8260 5035	12/06/19 15:00	5	12/06/19 08:25	
T194106-08 SB8 S1 10 [Soil] Sampled 11/22/19 08:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 08:32	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:32	
8260 5035	12/06/19 15:00	5	12/06/19 08:32	
T194106-09 SB8 S1 15 [Soil] Sampled 11/22/19 08:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-10 SB8 S1 20 [Soil] Sampled 11/22/19 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-11 SB8 S2 1 [Soil] Sampled 11/22/19 09:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 09:48	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 09:48	
8260 5035	12/06/19 15:00	5	12/06/19 09:48	
T194106-12 SB8 S2 5 [Soil] Sampled 11/22/19 09:54 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 09:54	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 09:54	
8260 5035	12/06/19 15:00	5	12/06/19 09:54	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-13 SB8 S2 10 [Soil] Sampled 11/22/19 10:04 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 10:04	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 10:04	
8260 5035	12/06/19 15:00	5	12/06/19 10:04	
T194106-14 SB8 S2 15 [Soil] Sampled 11/22/19 10:10 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T194106-15 SB8 S2 25 [Soil] Sampled 11/22/19 11:46 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T194106-16 SB8 E2 1 [Soil] Sampled 11/22/19 13:40 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 13:40	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 13:40	
8260 5035	12/06/19 15:00	5	12/06/19 13:40	
T194106-17 SB8 E2 5 [Soil] Sampled 11/22/19 13:48 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 13:48	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 13:48	
8260 5035	12/06/19 15:00	5	12/06/19 13:48	
T194106-18 SB8 E2 10 [Soil] Sampled 11/22/19 14:00 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:00	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:00	
8260 5035	12/06/19 15:00	5	12/06/19 14:00	
T194106-19 SB8 E2 15 [Soil] Sampled 11/22/19 14:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T194106-20 SB8 E2 20 [Soil] Sampled 11/22/19 14:12 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-21 SB8 E1 1 [Soil] Sampled 11/22/19 14:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:32	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:32	
8260 5035	12/06/19 15:00	5	12/06/19 14:32	
T194106-22 SB8 E1 5 [Soil] Sampled 11/22/19 14:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:42	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:42	
8260 5035	12/06/19 15:00	5	12/06/19 14:42	
T194106-23 SB8 E1 10 [Soil] Sampled 11/22/19 14:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:50	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:50	
8260 5035	12/06/19 15:00	5	12/06/19 14:50	
T194106-24 SB8 E1 15 [Soil] Sampled 11/22/19 14:59 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-25 SB8 E1 20 [Soil] Sampled 11/22/19 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-26 SB15 W2 1 [Soil] Sampled 11/25/19 07:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 07:30	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:30	
8260 5035	12/06/19 15:00	5	12/09/19 07:30	
T194106-27 SB15 W2 5 [Soil] Sampled 11/25/19 07:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 07:38	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:38	
8260 5035	12/06/19 15:00	5	12/09/19 07:38	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-28 SB15 W2 10 [Soil] Sampled 11/25/19 07:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 07:42	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:42	
8260 5035	12/06/19 15:00	5	12/09/19 07:42	
T194106-29 SB15 W2 15 [Soil] Sampled 11/25/19 08:12 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-30 SB2 S2 1 [Soil] Sampled 11/25/19 08:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	05/23/20 08:58	
8015 Carbon Chain	12/04/19 15:00	3	12/09/19 08:58	
8260 5035	12/04/19 15:00	3	12/09/19 08:58	
T194106-31 SB2 S2 5 [Soil] Sampled 11/25/19 09:04 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 09:04	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 09:04	
8260 5035	12/06/19 15:00	5	12/09/19 09:04	
T194106-32 SB2 S2 10 [Soil] Sampled 11/25/19 09:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 09:12	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 09:12	
8260 5035	12/06/19 15:00	5	12/09/19 09:12	
T194106-33 SB2 S2 15 [Soil] Sampled 11/25/19 09:19 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-34 SB2 S2 25 [Soil] Sampled 11/25/19 09:28 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-35 SB15 S2 1 [Soil] Sampled 11/25/19 11:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 11:48	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 11:48	
8260 5035	12/06/19 15:00	5	12/09/19 11:48	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-36 SB15 S2 5 [Soil] Sampled 11/25/19 12:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 12:02	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 12:02	
8260 5035	12/06/19 15:00	5	12/09/19 12:02	
T194106-37 SB15 S1 1 [Soil] Sampled 11/25/19 13:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 13:25	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 13:25	
8260 5035	12/06/19 15:00	5	12/09/19 13:25	
T194106-38 SB15 W1 1 [Soil] Sampled 11/25/19 14:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 14:00	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 14:00	
8260 5035	12/06/19 15:00	5	12/09/19 14:00	
T194106-39 SB15 W1 4 [Soil] Sampled 11/25/19 14:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 14:30	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 14:30	
8260 5035	12/06/19 15:00	5	12/09/19 14:30	
T194106-40 SB15 E2 1 [Soil] Sampled 11/26/19 07:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 07:20	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:20	
8260 5035	12/06/19 15:00	5	12/10/19 07:20	
T194106-41 SB15 E2 5 [Soil] Sampled 11/26/19 07:33 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 07:33	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:33	
8260 5035	12/06/19 15:00	5	12/10/19 07:33	
T194106-42 SB15 E2 10 [Soil] Sampled 11/26/19 07:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 07:38	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:38	
8260 5035	12/06/19 15:00	5	12/10/19 07:38	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-43 SB15 E2 15 [Soil] Sampled 11/26/19 07:47 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194106-44 SB15 E2 20 [Soil] Sampled 11/26/19 07:53 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194106-45 SB15 E1 1 [Soil] Sampled 11/26/19 08:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 08:15	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 08:15	
8260 5035	12/06/19 15:00	5	12/10/19 08:15	
T194106-46 SB15 E1 5 [Soil] Sampled 11/26/19 09:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 09:00	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 09:00	
8260 5035	12/06/19 15:00	5	12/10/19 09:00	
T194106-47 SB15 E1 10 [Soil] Sampled 11/26/19 09:08 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 09:08	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 09:08	
8260 5035	12/06/19 15:00	5	12/10/19 09:08	
T194106-48 SB15 E1 16 [Soil] Sampled 11/26/19 09:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T194106-49 SB15 N1 1 [Soil] Sampled 11/26/19 10:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 10:05	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:05	
8260 5035	12/06/19 15:00	5	12/10/19 10:05	
T194106-50 SB15 N1 5 [Soil] Sampled 11/26/19 10:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 10:10	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:10	
8260 5035	12/06/19 15:00	5	12/10/19 10:10	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-51 SB15 N1 10 [Soil] Sampled 11/26/19 10:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 10:18	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:18	
8260 5035	12/06/19 15:00	5	12/10/19 10:18	
T194106-52 SB15 N1 15 [Soil] Sampled 11/26/19 10:22 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-53 SB15 N1 25 [Soil] Sampled 11/26/19 10:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-54 SB15 N2 1 [Soil] Sampled 11/26/19 11:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 11:05	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:05	
8260 5035	12/06/19 15:00	5	12/10/19 11:05	
T194106-55 SB15 N2 5 [Soil] Sampled 11/26/19 11:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 11:12	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:12	
8260 5035	12/06/19 15:00	5	12/10/19 11:12	
T194106-56 SB15 N2 10 [Soil] Sampled 11/26/19 11:16 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 11:16	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:16	
8260 5035	12/06/19 15:00	5	12/10/19 11:16	
T194106-57 SB15 N2 15 [Soil] Sampled 11/26/19 11:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-58 SB15 N2 25 [Soil] Sampled 11/26/19 11:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
				NOT LISTED ON COC.

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22

7470/71 Hg

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/06/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/26/19 17:45

Logged In By: Sunny Lounethone

Date Logged In: 11/27/19 09:17

Samples Received at: 3.5°C

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
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T194106-01 SB8 W2 1 [Soil] Sampled 11/21/19 14:45 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	11/26/19 14:45
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 14:45
8260 5035	12/06/19 15:00	5	12/05/19 14:45

T194106-02 SB8 W2 5 [Soil] Sampled 11/21/19 14:58 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	11/26/19 14:58
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 14:58
8260 5035	12/06/19 15:00	5	12/05/19 14:58

T194106-03 SB8 W2 10 [Soil] Sampled 11/21/19 15:08 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/06/19 15:00	5	11/26/19 15:08
8015 Carbon Chain	12/06/19 15:00	5	12/05/19 15:08
8260 5035	12/06/19 15:00	5	12/05/19 15:08

T194106-04 SB8 W2 15 [Soil] Sampled 11/21/19 15:16 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194106-05 SB8 W2 26 [Soil] Sampled 11/21/19 00:00 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-06 SB8 S1 1 [Soil] Sampled 11/22/19 08:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 08:15	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:15	
8260 5035	12/06/19 15:00	5	12/06/19 08:15	
T194106-07 SB8 S1 5 [Soil] Sampled 11/22/19 08:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 08:25	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:25	
8260 5035	12/06/19 15:00	5	12/06/19 08:25	
T194106-08 SB8 S1 10 [Soil] Sampled 11/22/19 08:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 08:32	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 08:32	
8260 5035	12/06/19 15:00	5	12/06/19 08:32	
T194106-09 SB8 S1 15 [Soil] Sampled 11/22/19 08:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-10 SB8 S1 20 [Soil] Sampled 11/22/19 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-11 SB8 S2 1 [Soil] Sampled 11/22/19 09:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 09:48	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 09:48	
8260 5035	12/06/19 15:00	5	12/06/19 09:48	
STLC Pb	12/18/19 15:00	3	05/20/20 09:48	Cr Only
STLC Leaching Procedure Metals	12/18/19 15:00	3	05/20/20 09:48	Cr Only
T194106-12 SB8 S2 5 [Soil] Sampled 11/22/19 09:54 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 09:54	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 09:54	
8260 5035	12/06/19 15:00	5	12/06/19 09:54	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-13 SB8 S2 10 [Soil] Sampled 11/22/19 10:04 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 10:04	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 10:04	
8260 5035	12/06/19 15:00	5	12/06/19 10:04	
T194106-14 SB8 S2 15 [Soil] Sampled 11/22/19 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-15 SB8 S2 25 [Soil] Sampled 11/22/19 11:46 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-16 SB8 E2 1 [Soil] Sampled 11/22/19 13:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 13:40	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 13:40	
8260 5035	12/06/19 15:00	5	12/06/19 13:40	
STLC Pb	12/18/19 15:00	3	05/20/20 13:40	Cr Only
STLC Leaching Procedure Metals	12/18/19 15:00	3	05/20/20 13:40	Cr Only
T194106-17 SB8 E2 5 [Soil] Sampled 11/22/19 13:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 13:48	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 13:48	
8260 5035	12/06/19 15:00	5	12/06/19 13:48	
T194106-18 SB8 E2 10 [Soil] Sampled 11/22/19 14:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:00	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:00	
8260 5035	12/06/19 15:00	5	12/06/19 14:00	
T194106-19 SB8 E2 15 [Soil] Sampled 11/22/19 14:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-20 SB8 E2 20 [Soil] Sampled 11/22/19 14:12 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-21 SB8 E1 1 [Soil] Sampled 11/22/19 14:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:32	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:32	
8260 5035	12/06/19 15:00	5	12/06/19 14:32	
T194106-22 SB8 E1 5 [Soil] Sampled 11/22/19 14:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:42	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:42	
8260 5035	12/06/19 15:00	5	12/06/19 14:42	
T194106-23 SB8 E1 10 [Soil] Sampled 11/22/19 14:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/27/19 14:50	
8015 Carbon Chain	12/06/19 15:00	5	12/06/19 14:50	
8260 5035	12/06/19 15:00	5	12/06/19 14:50	
T194106-24 SB8 E1 15 [Soil] Sampled 11/22/19 14:59 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-25 SB8 E1 20 [Soil] Sampled 11/22/19 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-26 SB15 W2 1 [Soil] Sampled 11/25/19 07:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 07:30	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:30	
8260 5035	12/06/19 15:00	5	12/09/19 07:30	
T194106-27 SB15 W2 5 [Soil] Sampled 11/25/19 07:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 07:38	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:38	
8260 5035	12/06/19 15:00	5	12/09/19 07:38	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-28 SB15 W2 10 [Soil] Sampled 11/25/19 07:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 07:42	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 07:42	
8260 5035	12/06/19 15:00	5	12/09/19 07:42	
T194106-29 SB15 W2 15 [Soil] Sampled 11/25/19 08:12 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-30 SB2 S2 1 [Soil] Sampled 11/25/19 08:58 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/12/19 15:00	5	05/23/20 08:58	
8015 Carbon Chain	12/12/19 15:00	3	12/09/19 08:58	
8260 5035	12/12/19 15:00	3	12/09/19 08:58	
T194106-31 SB2 S2 5 [Soil] Sampled 11/25/19 09:04 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 09:04	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 09:04	
8260 5035	12/06/19 15:00	5	12/09/19 09:04	
T194106-32 SB2 S2 10 [Soil] Sampled 11/25/19 09:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 09:12	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 09:12	
8260 5035	12/06/19 15:00	5	12/09/19 09:12	
T194106-33 SB2 S2 15 [Soil] Sampled 11/25/19 09:19 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-34 SB2 S2 25 [Soil] Sampled 11/25/19 09:28 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-35 SB15 S2 1 [Soil] Sampled 11/25/19 11:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 11:48	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 11:48	
8260 5035	12/06/19 15:00	5	12/09/19 11:48	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-36 SB15 S2 5 [Soil] Sampled 11/25/19 12:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 12:02	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 12:02	
8260 5035	12/06/19 15:00	5	12/09/19 12:02	
T194106-37 SB15 S1 1 [Soil] Sampled 11/25/19 13:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 13:25	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 13:25	
8260 5035	12/06/19 15:00	5	12/09/19 13:25	
STLC Pb	12/18/19 15:00	3	05/23/20 13:25	Cr only
STLC Leaching Procedure Metals	12/18/19 15:00	3	05/23/20 13:25	Cr only
T194106-38 SB15 W1 1 [Soil] Sampled 11/25/19 14:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 14:00	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 14:00	
8260 5035	12/06/19 15:00	5	12/09/19 14:00	
T194106-39 SB15 W1 4 [Soil] Sampled 11/25/19 14:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	11/30/19 14:30	
8015 Carbon Chain	12/06/19 15:00	5	12/09/19 14:30	
8260 5035	12/06/19 15:00	5	12/09/19 14:30	
T194106-40 SB15 E2 1 [Soil] Sampled 11/26/19 07:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 07:20	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:20	
8260 5035	12/06/19 15:00	5	12/10/19 07:20	
T194106-41 SB15 E2 5 [Soil] Sampled 11/26/19 07:33 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 07:33	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:33	
8260 5035	12/06/19 15:00	5	12/10/19 07:33	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-42 SB15 E2 10 [Soil] Sampled 11/26/19 07:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 07:38	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 07:38	
8260 5035	12/06/19 15:00	5	12/10/19 07:38	
T194106-43 SB15 E2 15 [Soil] Sampled 11/26/19 07:47 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-44 SB15 E2 20 [Soil] Sampled 11/26/19 07:53 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-45 SB15 E1 1 [Soil] Sampled 11/26/19 08:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 08:15	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 08:15	
8260 5035	12/06/19 15:00	5	12/10/19 08:15	
T194106-46 SB15 E1 5 [Soil] Sampled 11/26/19 09:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 09:00	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 09:00	
8260 5035	12/06/19 15:00	5	12/10/19 09:00	
T194106-47 SB15 E1 10 [Soil] Sampled 11/26/19 09:08 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 09:08	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 09:08	
8260 5035	12/06/19 15:00	5	12/10/19 09:08	
T194106-48 SB15 E1 16 [Soil] Sampled 11/26/19 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-49 SB15 N1 1 [Soil] Sampled 11/26/19 10:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 10:05	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:05	
8260 5035	12/06/19 15:00	5	12/10/19 10:05	
STLC Pb	12/18/19 15:00	3	05/24/20 10:05	
STLC Leaching Procedure Metals	12/18/19 15:00	3	05/24/20 10:05	
T194106-50 SB15 N1 5 [Soil] Sampled 11/26/19 10:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 10:10	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:10	
8260 5035	12/06/19 15:00	5	12/10/19 10:10	
T194106-51 SB15 N1 10 [Soil] Sampled 11/26/19 10:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 10:18	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 10:18	
8260 5035	12/06/19 15:00	5	12/10/19 10:18	
T194106-52 SB15 N1 15 [Soil] Sampled 11/26/19 10:22 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-53 SB15 N1 25 [Soil] Sampled 11/26/19 10:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194106-54 SB15 N2 1 [Soil] Sampled 11/26/19 11:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 11:05	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:05	
8260 5035	12/06/19 15:00	5	12/10/19 11:05	
T194106-55 SB15 N2 5 [Soil] Sampled 11/26/19 11:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 11:12	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:12	
8260 5035	12/06/19 15:00	5	12/10/19 11:12	

WORK ORDER

T194106

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194106-56 SB15 N2 10 [Soil] Sampled 11/26/19 11:16 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/06/19 15:00	5	12/01/19 11:16	
8015 Carbon Chain	12/06/19 15:00	5	12/10/19 11:16	
8260 5035	12/06/19 15:00	5	12/10/19 11:16	

T194106-57 SB15 N2 15 [Soil] Sampled 11/26/19 11:25 (GMT-08:00) Pacific Time (US &
[NO ANALYSES]

T194106-58 SB15 N2 25 [Soil] Sampled 11/26/19 11:44 (GMT-08:00) Pacific Time (US &
[NO ANALYSES] **NOT LISTED ON COC.**

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

10 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 12/02/19 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB2E2-1	T194134-01	Soil	11/27/19 07:19	12/02/19 13:10
SB2E2-5	T194134-02	Soil	11/27/19 07:26	12/02/19 13:10
SB2E2-10	T194134-03	Soil	11/27/19 07:30	12/02/19 13:10
SB2E1-1	T194134-06	Soil	11/27/19 08:00	12/02/19 13:10
SB2E1-5	T194134-07	Soil	11/27/19 08:05	12/02/19 13:10
SB2E1-10	T194134-08	Soil	11/27/19 08:10	12/02/19 13:10
SB2S1-1	T194134-11	Soil	11/27/19 08:45	12/02/19 13:10
SB2S1-5	T194134-12	Soil	11/27/19 08:50	12/02/19 13:10
SB2S1-10	T194134-13	Soil	11/27/19 08:55	12/02/19 13:10
SB2W1-1	T194134-16	Soil	11/27/19 09:20	12/02/19 13:10
SB2W1-5	T194134-17	Soil	11/27/19 09:28	12/02/19 13:10
SB2W1-10	T194134-18	Soil	11/27/19 09:33	12/02/19 13:10
SB2W2-1	T194134-21	Soil	11/27/19 10:20	12/02/19 13:10
SB2W2-5	T194134-22	Soil	11/27/19 10:25	12/02/19 13:10
SB2W2-10	T194134-23	Soil	11/27/19 10:30	12/02/19 13:10
SB2N2-1	T194134-26	Soil	11/27/19 11:53	12/02/19 13:10
SB2N2-5	T194134-27	Soil	11/27/19 12:00	12/02/19 13:10
SB2N2-10	T194134-28	Soil	11/27/19 12:04	12/02/19 13:10
SB2N1-1	T194134-31	Soil	11/27/19 12:30	12/02/19 13:10
SB2N1-5	T194134-32	Soil	11/27/19 12:36	12/02/19 13:10
SB2N1-10	T194134-33	Soil	11/27/19 12:42	12/02/19 13:10
IDW-1	T194134-36	Soil	11/27/19 13:40	12/02/19 13:10

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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.

Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

DETECTIONS SUMMARY

Sample ID: SB2E2-1

Laboratory ID: T194134-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	55	1.0	mg/kg	EPA 6010b	
Chromium	11	2.0	mg/kg	EPA 6010b	
Cobalt	5.9	2.0	mg/kg	EPA 6010b	
Copper	11	1.0	mg/kg	EPA 6010b	
Lead	27	3.0	mg/kg	EPA 6010b	
Nickel	8.0	2.0	mg/kg	EPA 6010b	
Vanadium	23	5.0	mg/kg	EPA 6010b	
Zinc	95	1.0	mg/kg	EPA 6010b	

Sample ID: SB2E2-5

Laboratory ID: T194134-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	15	1.0	mg/kg	EPA 6010b	
Chromium	6.5	2.0	mg/kg	EPA 6010b	
Cobalt	3.1	2.0	mg/kg	EPA 6010b	
Copper	7.1	1.0	mg/kg	EPA 6010b	
Lead	3.3	3.0	mg/kg	EPA 6010b	
Nickel	4.5	2.0	mg/kg	EPA 6010b	
Vanadium	12	5.0	mg/kg	EPA 6010b	
Zinc	16	1.0	mg/kg	EPA 6010b	

Sample ID: SB2E2-10

Laboratory ID: T194134-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	19	1.0	mg/kg	EPA 6010b	
Chromium	8.4	2.0	mg/kg	EPA 6010b	
Cobalt	3.8	2.0	mg/kg	EPA 6010b	
Copper	8.1	1.0	mg/kg	EPA 6010b	
Lead	4.2	3.0	mg/kg	EPA 6010b	
Nickel	7.0	2.0	mg/kg	EPA 6010b	
Vanadium	16	5.0	mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2E2-10

Laboratory ID: T194134-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Zinc	20	1.0	mg/kg	EPA 6010b	

Sample ID: SB2E1-1

Laboratory ID: T194134-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C6-C12 (GRO)	14	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	63	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	810	10	mg/kg	EPA 8015B	
Barium	170	5.0	mg/kg	EPA 6010b	RE-01
Cadmium	2.1	2.0	mg/kg	EPA 6010b	
Chromium	17	2.0	mg/kg	EPA 6010b	
Cobalt	6.5	2.0	mg/kg	EPA 6010b	
Copper	180	5.0	mg/kg	EPA 6010b	RE-01
Lead	100	3.0	mg/kg	EPA 6010b	
Nickel	10	2.0	mg/kg	EPA 6010b	
Vanadium	25	5.0	mg/kg	EPA 6010b	
Zinc	210	1.0	mg/kg	EPA 6010b	

Sample ID: SB2E1-5

Laboratory ID: T194134-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	25	1.0	mg/kg	EPA 6010b	
Chromium	9.1	2.0	mg/kg	EPA 6010b	
Cobalt	4.0	2.0	mg/kg	EPA 6010b	
Copper	8.9	1.0	mg/kg	EPA 6010b	
Lead	3.3	3.0	mg/kg	EPA 6010b	
Nickel	6.2	2.0	mg/kg	EPA 6010b	
Vanadium	16	5.0	mg/kg	EPA 6010b	
Zinc	20	1.0	mg/kg	EPA 6010b	

Sample ID: SB2E1-10

Laboratory ID: T194134-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	35	5.0	mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2E1-10

Laboratory ID: T194134-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	18	1.0		mg/kg	EPA 6010b	
Chromium	4.8	2.0		mg/kg	EPA 6010b	
Cobalt	4.0	2.0		mg/kg	EPA 6010b	
Copper	5.4	1.0		mg/kg	EPA 6010b	
Lead	5.4	3.0		mg/kg	EPA 6010b	
Nickel	3.8	2.0		mg/kg	EPA 6010b	
Vanadium	12	5.0		mg/kg	EPA 6010b	
Zinc	17	1.0		mg/kg	EPA 6010b	

Sample ID: SB2S1-1

Laboratory ID: T194134-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	10	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	93	10		mg/kg	EPA 8015B	
Barium	54	1.0		mg/kg	EPA 6010b	
Chromium	16	2.0		mg/kg	EPA 6010b	
Cobalt	6.7	2.0		mg/kg	EPA 6010b	
Copper	32	1.0		mg/kg	EPA 6010b	
Lead	64	3.0		mg/kg	EPA 6010b	
Nickel	11	2.0		mg/kg	EPA 6010b	
Vanadium	26	5.0		mg/kg	EPA 6010b	
Zinc	110	1.0		mg/kg	EPA 6010b	

Sample ID: SB2S1-5

Laboratory ID: T194134-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	12	1.0		mg/kg	EPA 6010b	
Chromium	6.6	2.0		mg/kg	EPA 6010b	
Cobalt	3.1	2.0		mg/kg	EPA 6010b	
Copper	7.5	1.0		mg/kg	EPA 6010b	
Lead	3.9	3.0		mg/kg	EPA 6010b	
Nickel	4.8	2.0		mg/kg	EPA 6010b	
Vanadium	11	5.0		mg/kg	EPA 6010b	
Zinc	14	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2S1-10

Laboratory ID: T194134-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	30	1.0		mg/kg	EPA 6010b	
Chromium	23	2.0		mg/kg	EPA 6010b	
Cobalt	5.5	2.0		mg/kg	EPA 6010b	
Copper	14	1.0		mg/kg	EPA 6010b	
Nickel	9.4	2.0		mg/kg	EPA 6010b	
Vanadium	24	5.0		mg/kg	EPA 6010b	
Zinc	25	1.0		mg/kg	EPA 6010b	

Sample ID: SB2W1-1

Laboratory ID: T194134-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	14	10		mg/kg	EPA 8015B	
Barium	35	1.0		mg/kg	EPA 6010b	
Chromium	9.6	2.0		mg/kg	EPA 6010b	
Cobalt	4.9	2.0		mg/kg	EPA 6010b	
Copper	9.3	1.0		mg/kg	EPA 6010b	
Lead	6.2	3.0		mg/kg	EPA 6010b	
Nickel	6.5	2.0		mg/kg	EPA 6010b	
Vanadium	19	5.0		mg/kg	EPA 6010b	
Zinc	30	1.0		mg/kg	EPA 6010b	

Sample ID: SB2W1-5

Laboratory ID: T194134-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	27	1.0		mg/kg	EPA 6010b	
Chromium	7.4	2.0		mg/kg	EPA 6010b	
Cobalt	3.7	2.0		mg/kg	EPA 6010b	
Copper	8.9	1.0		mg/kg	EPA 6010b	
Lead	4.3	3.0		mg/kg	EPA 6010b	
Nickel	5.0	2.0		mg/kg	EPA 6010b	
Vanadium	15	5.0		mg/kg	EPA 6010b	
Zinc	20	1.0		mg/kg	EPA 6010b	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2W1-10

Laboratory ID: T194134-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	22	1.0		mg/kg	EPA 6010b	
Chromium	9.5	2.0		mg/kg	EPA 6010b	
Cobalt	4.5	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	4.8	3.0		mg/kg	EPA 6010b	
Nickel	6.1	2.0		mg/kg	EPA 6010b	
Vanadium	18	5.0		mg/kg	EPA 6010b	
Zinc	23	1.0		mg/kg	EPA 6010b	

Sample ID: SB2W2-1

Laboratory ID: T194134-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	37	1.0		mg/kg	EPA 6010b	
Chromium	11	2.0		mg/kg	EPA 6010b	
Cobalt	5.7	2.0		mg/kg	EPA 6010b	
Copper	7.6	1.0		mg/kg	EPA 6010b	
Lead	3.9	3.0		mg/kg	EPA 6010b	
Nickel	6.9	2.0		mg/kg	EPA 6010b	
Vanadium	22	5.0		mg/kg	EPA 6010b	
Zinc	26	1.0		mg/kg	EPA 6010b	

Sample ID: SB2W2-5

Laboratory ID: T194134-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	22	1.0		mg/kg	EPA 6010b	
Chromium	9.2	2.0		mg/kg	EPA 6010b	
Cobalt	4.3	2.0		mg/kg	EPA 6010b	
Copper	8.7	1.0		mg/kg	EPA 6010b	
Lead	7.8	3.0		mg/kg	EPA 6010b	
Nickel	5.8	2.0		mg/kg	EPA 6010b	
Vanadium	17	5.0		mg/kg	EPA 6010b	
Zinc	23	1.0		mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2W2-10

Laboratory ID: T194134-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	21	1.0		mg/kg	EPA 6010b	
Chromium	7.2	2.0		mg/kg	EPA 6010b	
Cobalt	3.9	2.0		mg/kg	EPA 6010b	
Copper	9.8	1.0		mg/kg	EPA 6010b	
Lead	4.0	3.0		mg/kg	EPA 6010b	
Nickel	6.0	2.0		mg/kg	EPA 6010b	
Vanadium	15	5.0		mg/kg	EPA 6010b	
Zinc	23	1.0		mg/kg	EPA 6010b	

Sample ID: SB2N2-1

Laboratory ID: T194134-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	44	1.0		mg/kg	EPA 6010b	
Chromium	12	2.0		mg/kg	EPA 6010b	
Cobalt	6.3	2.0		mg/kg	EPA 6010b	
Copper	10	1.0		mg/kg	EPA 6010b	
Lead	19	3.0		mg/kg	EPA 6010b	
Nickel	7.9	2.0		mg/kg	EPA 6010b	
Vanadium	24	5.0		mg/kg	EPA 6010b	
Zinc	110	1.0		mg/kg	EPA 6010b	

Sample ID: SB2N2-5

Laboratory ID: T194134-27

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	27	1.0		mg/kg	EPA 6010b	
Chromium	9.6	2.0		mg/kg	EPA 6010b	
Cobalt	4.5	2.0		mg/kg	EPA 6010b	
Copper	5.5	1.0		mg/kg	EPA 6010b	
Nickel	5.6	2.0		mg/kg	EPA 6010b	
Vanadium	18	5.0		mg/kg	EPA 6010b	
Zinc	24	1.0		mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2N2-10

Laboratory ID: T194134-28

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	30	1.0		mg/kg	EPA 6010b	
Chromium	10	2.0		mg/kg	EPA 6010b	
Cobalt	4.8	2.0		mg/kg	EPA 6010b	
Copper	9.7	1.0		mg/kg	EPA 6010b	
Lead	4.2	3.0		mg/kg	EPA 6010b	
Nickel	8.2	2.0		mg/kg	EPA 6010b	
Vanadium	17	5.0		mg/kg	EPA 6010b	
Zinc	26	1.0		mg/kg	EPA 6010b	

Sample ID: SB2N1-1

Laboratory ID: T194134-31

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	29	10		mg/kg	EPA 8015B	
Barium	52	1.0		mg/kg	EPA 6010b	
Chromium	13	2.0		mg/kg	EPA 6010b	
Cobalt	6.5	2.0		mg/kg	EPA 6010b	
Copper	11	1.0		mg/kg	EPA 6010b	
Lead	21	3.0		mg/kg	EPA 6010b	
Nickel	8.5	2.0		mg/kg	EPA 6010b	
Vanadium	25	5.0		mg/kg	EPA 6010b	
Zinc	79	1.0		mg/kg	EPA 6010b	

Sample ID: SB2N1-5

Laboratory ID: T194134-32

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	25	1.0		mg/kg	EPA 6010b	
Chromium	8.0	2.0		mg/kg	EPA 6010b	
Cobalt	4.2	2.0		mg/kg	EPA 6010b	
Copper	9.7	1.0		mg/kg	EPA 6010b	
Lead	3.5	3.0		mg/kg	EPA 6010b	
Nickel	5.4	2.0		mg/kg	EPA 6010b	
Vanadium	17	5.0		mg/kg	EPA 6010b	
Zinc	20	1.0		mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Sample ID: SB2N1-10

Laboratory ID: T194134-33

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	22	1.0		mg/kg	EPA 6010b	
Chromium	6.4	2.0		mg/kg	EPA 6010b	
Cobalt	3.8	2.0		mg/kg	EPA 6010b	
Copper	6.8	1.0		mg/kg	EPA 6010b	
Nickel	4.2	2.0		mg/kg	EPA 6010b	
Vanadium	14	5.0		mg/kg	EPA 6010b	
Zinc	20	1.0		mg/kg	EPA 6010b	

Sample ID: IDW-1

Laboratory ID: T194134-36

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	18	10		mg/kg	EPA 8015B	
C29-C40 (MORO)	120	10		mg/kg	EPA 8015B	
Barium	47	1.0		mg/kg	EPA 6010b	
Chromium	13	2.0		mg/kg	EPA 6010b	
Cobalt	6.3	2.0		mg/kg	EPA 6010b	
Copper	17	1.0		mg/kg	EPA 6010b	
Lead	24	3.0		mg/kg	EPA 6010b	
Nickel	8.1	2.0		mg/kg	EPA 6010b	
Vanadium	24	5.0		mg/kg	EPA 6010b	
Zinc	75	1.0		mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-1
T194134-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		79.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/04/19	"	
Arsenic	ND	5.0	"	"	"	"	12/04/19	"	
Barium	55	1.0	"	"	"	"	12/04/19	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	11	2.0	"	"	"	"	12/04/19	"	
Cobalt	5.9	2.0	"	"	"	"	12/04/19	"	
Copper	11	1.0	"	"	"	"	12/04/19	"	
Lead	27	3.0	"	"	"	"	12/04/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	12/04/19	"	
Zinc	95	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-1
T194134-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0045	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0045	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0045	"	"	"	"	"	"	
Bromoform	ND	0.0045	"	"	"	"	"	"	
Bromomethane	ND	0.0045	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0045	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0045	"	"	"	"	"	"	
Chlorobenzene	ND	0.0045	"	"	"	"	"	"	
Chloroethane	ND	0.0045	"	"	"	"	"	"	
Chloroform	ND	0.0045	"	"	"	"	"	"	
Chloromethane	ND	0.0045	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0045	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0090	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0045	"	"	"	"	"	"	
Dibromomethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0045	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0045	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0045	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0045	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-1
T194134-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0045	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0045	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0045	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0045	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0045	"	"	"	"	"	"	
Methylene chloride	ND	0.0045	"	"	"	"	"	"	
Naphthalene	ND	0.0045	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0045	"	"	"	"	"	"	
Styrene	ND	0.0045	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0045	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0045	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0045	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0045	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0045	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0045	"	"	"	"	"	"	
Vinyl chloride	ND	0.0045	"	"	"	"	"	"	
Benzene	ND	0.0045	"	"	"	"	"	"	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
m,p-Xylene	ND	0.0090	"	"	"	"	"	"	
o-Xylene	ND	0.0045	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.0 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-1
T194134-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-5
T194134-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 81.0 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	15	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	6.5	2.0	"	"	"	"	"	"	
Cobalt	3.1	2.0	"	"	"	"	"	"	
Copper	7.1	1.0	"	"	"	"	"	"	
Lead	3.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	12	5.0	"	"	"	"	"	"	
Zinc	16	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

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12/10/19 08:32

SB2E2-5
T194134-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0052	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0052	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0052	"	"	"	"	"	"	
Bromoform	ND	0.0052	"	"	"	"	"	"	
Bromomethane	ND	0.0052	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0052	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0052	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0052	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0052	"	"	"	"	"	"	
Chlorobenzene	ND	0.0052	"	"	"	"	"	"	
Chloroethane	ND	0.0052	"	"	"	"	"	"	
Chloroform	ND	0.0052	"	"	"	"	"	"	
Chloromethane	ND	0.0052	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0052	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0052	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0052	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0052	"	"	"	"	"	"	
Dibromomethane	ND	0.0052	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0052	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0052	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0052	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0052	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0052	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0052	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0052	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0052	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0052	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-5
T194134-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0052	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0052	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0052	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0052	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0052	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0052	"	"	"	"	"	"	
Methylene chloride	ND	0.0052	"	"	"	"	"	"	
Naphthalene	ND	0.0052	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0052	"	"	"	"	"	"	
Styrene	ND	0.0052	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0052	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0052	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0031	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0052	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0052	"	"	"	"	"	"	
Trichloroethene	ND	0.0031	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0052	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0052	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0052	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0052	"	"	"	"	"	"	
Vinyl chloride	ND	0.0052	"	"	"	"	"	"	
Benzene	ND	0.0052	"	"	"	"	"	"	
Toluene	ND	0.0052	"	"	"	"	"	"	
Ethylbenzene	ND	0.0052	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0052	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.3 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-5
T194134-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-10
T194134-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		73.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	19	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	8.4	2.0	"	"	"	"	"	"	
Cobalt	3.8	2.0	"	"	"	"	"	"	
Copper	8.1	1.0	"	"	"	"	"	"	
Lead	4.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	16	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-10
T194134-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0056	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0056	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0056	"	"	"	"	"	"	
Bromoform	ND	0.0056	"	"	"	"	"	"	
Bromomethane	ND	0.0056	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0056	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0056	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0056	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0056	"	"	"	"	"	"	
Chlorobenzene	ND	0.0056	"	"	"	"	"	"	
Chloroethane	ND	0.0056	"	"	"	"	"	"	
Chloroform	ND	0.0056	"	"	"	"	"	"	
Chloromethane	ND	0.0056	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0056	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0056	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0056	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.011	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0056	"	"	"	"	"	"	
Dibromomethane	ND	0.0056	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0056	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0056	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0056	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0056	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0056	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0056	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0056	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0056	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0056	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0056	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0056	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0056	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-10
T194134-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0056	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0056	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0056	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0056	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0056	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0056	"	"	"	"	"	"	
Methylene chloride	ND	0.0056	"	"	"	"	"	"	
Naphthalene	ND	0.0056	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0056	"	"	"	"	"	"	
Styrene	ND	0.0056	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0056	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0056	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0033	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0056	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0056	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0056	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0056	"	"	"	"	"	"	
Trichloroethene	ND	0.0033	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0056	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0056	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0056	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0056	"	"	"	"	"	"	
Vinyl chloride	ND	0.0056	"	"	"	"	"	"	
Benzene	ND	0.0056	"	"	"	"	"	"	
Toluene	ND	0.0056	"	"	"	"	"	"	
Ethylbenzene	ND	0.0056	"	"	"	"	"	"	
m,p-Xylene	ND	0.011	"	"	"	"	"	"	
o-Xylene	ND	0.0056	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.1 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E2-10
T194134-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-1
T194134-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	14	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	63	10	"	"	"	"	"	"	
C29-C40 (MORO)	810	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		76.4 %		65-135	"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/04/19	"	
Arsenic	ND	5.0	"	"	"	"	12/04/19	"	
Barium	170	5.0	"	5	"	"	12/04/19	"	RE-01
Beryllium	ND	1.0	"	1	"	"	12/04/19	"	
Cadmium	2.1	2.0	"	"	"	"	12/04/19	"	
Chromium	17	2.0	"	"	"	"	12/04/19	"	
Cobalt	6.5	2.0	"	"	"	"	12/04/19	"	
Copper	180	5.0	"	5	"	"	12/04/19	"	RE-01
Lead	100	3.0	"	1	"	"	12/04/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	10	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	12/04/19	"	
Zinc	210	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-1
T194134-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0092	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-1
T194134-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0092	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		94.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		92.9 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-1
T194134-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-5
T194134-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		78.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	25	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	9.1	2.0	"	"	"	"	"	"	
Cobalt	4.0	2.0	"	"	"	"	"	"	
Copper	8.9	1.0	"	"	"	"	"	"	
Lead	3.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	16	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-5
T194134-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0052	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0052	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0052	"	"	"	"	"	"	
Bromoform	ND	0.0052	"	"	"	"	"	"	
Bromomethane	ND	0.0052	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0052	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0052	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0052	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0052	"	"	"	"	"	"	
Chlorobenzene	ND	0.0052	"	"	"	"	"	"	
Chloroethane	ND	0.0052	"	"	"	"	"	"	
Chloroform	ND	0.0052	"	"	"	"	"	"	
Chloromethane	ND	0.0052	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0052	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0052	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0052	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0052	"	"	"	"	"	"	
Dibromomethane	ND	0.0052	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0052	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0052	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0052	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0052	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0052	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0052	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0052	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0052	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0052	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0052	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-5
T194134-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0052	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0052	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0052	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0052	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0052	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0052	"	"	"	"	"	"	
Methylene chloride	ND	0.0052	"	"	"	"	"	"	
Naphthalene	ND	0.0052	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0052	"	"	"	"	"	"	
Styrene	ND	0.0052	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0052	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0052	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0031	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0052	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0052	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0052	"	"	"	"	"	"	
Trichloroethene	ND	0.0031	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0052	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0052	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0052	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0052	"	"	"	"	"	"	
Vinyl chloride	ND	0.0052	"	"	"	"	"	"	
Benzene	ND	0.0052	"	"	"	"	"	"	
Toluene	ND	0.0052	"	"	"	"	"	"	
Ethylbenzene	ND	0.0052	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0052	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.0 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.2 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-5
T194134-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-10
T194134-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	35	5.0	"	"	"	"	"	"	
Barium	18	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	4.8	2.0	"	"	"	"	"	"	
Cobalt	4.0	2.0	"	"	"	"	"	"	
Copper	5.4	1.0	"	"	"	"	"	"	
Lead	5.4	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	3.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	12	5.0	"	"	"	"	"	"	
Zinc	17	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-10
T194134-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0059	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0059	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0059	"	"	"	"	"	"	
Bromoform	ND	0.0059	"	"	"	"	"	"	
Bromomethane	ND	0.0059	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0059	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0059	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0059	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0059	"	"	"	"	"	"	
Chlorobenzene	ND	0.0059	"	"	"	"	"	"	
Chloroethane	ND	0.0059	"	"	"	"	"	"	
Chloroform	ND	0.0059	"	"	"	"	"	"	
Chloromethane	ND	0.0059	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0059	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0059	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0059	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.012	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0059	"	"	"	"	"	"	
Dibromomethane	ND	0.0059	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0059	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0059	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0059	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0059	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0059	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0059	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0059	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0059	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0059	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0059	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-10
T194134-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0059	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0059	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0059	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0059	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0059	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0059	"	"	"	"	"	"	
Methylene chloride	ND	0.0059	"	"	"	"	"	"	
Naphthalene	ND	0.0059	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0059	"	"	"	"	"	"	
Styrene	ND	0.0059	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0059	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0059	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0035	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0059	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0059	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0059	"	"	"	"	"	"	
Trichloroethene	ND	0.0035	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0059	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0059	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0059	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0059	"	"	"	"	"	"	
Vinyl chloride	ND	0.0059	"	"	"	"	"	"	
Benzene	ND	0.0059	"	"	"	"	"	"	
Toluene	ND	0.0059	"	"	"	"	"	"	
Ethylbenzene	ND	0.0059	"	"	"	"	"	"	
m,p-Xylene	ND	0.012	"	"	"	"	"	"	
o-Xylene	ND	0.0059	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.1 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2E1-10
T194134-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-1
T194134-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	10	10	"	"	"	"	"	"	
C29-C40 (MORO)	93	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		73.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	54	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	6.7	2.0	"	"	"	"	"	"	
Copper	32	1.0	"	"	"	"	"	"	
Lead	64	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	110	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-1
T194134-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0085	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-1
T194134-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0085	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.5 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.1 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-1
T194134-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-5
T194134-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		78.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	12	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	6.6	2.0	"	"	"	"	"	"	
Cobalt	3.1	2.0	"	"	"	"	"	"	
Copper	7.5	1.0	"	"	"	"	"	"	
Lead	3.9	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	11	5.0	"	"	"	"	"	"	
Zinc	14	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-5
T194134-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0087	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-5
T194134-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0087	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.9 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-5
T194134-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-10
T194134-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		76.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	30	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	23	2.0	"	"	"	"	"	"	
Cobalt	5.5	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	25	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SB2S1-10
T194134-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0051	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0051	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0051	"	"	"	"	"	"	
Bromoform	ND	0.0051	"	"	"	"	"	"	
Bromomethane	ND	0.0051	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0051	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0051	"	"	"	"	"	"	
Chlorobenzene	ND	0.0051	"	"	"	"	"	"	
Chloroethane	ND	0.0051	"	"	"	"	"	"	
Chloroform	ND	0.0051	"	"	"	"	"	"	
Chloromethane	ND	0.0051	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0051	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0051	"	"	"	"	"	"	
Dibromomethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0051	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0051	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0051	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0051	"	"	"	"	"	"	

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Project: Whittram Fontana
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Reported:
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SB2S1-10
T194134-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0051	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0051	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0051	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0051	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0051	"	"	"	"	"	"	
Methylene chloride	ND	0.0051	"	"	"	"	"	"	
Naphthalene	ND	0.0051	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0051	"	"	"	"	"	"	
Styrene	ND	0.0051	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0051	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0030	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0051	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0051	"	"	"	"	"	"	
Trichloroethene	ND	0.0030	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0051	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0051	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0051	"	"	"	"	"	"	
Vinyl chloride	ND	0.0051	"	"	"	"	"	"	
Benzene	ND	0.0051	"	"	"	"	"	"	
Toluene	ND	0.0051	"	"	"	"	"	"	
Ethylbenzene	ND	0.0051	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0051	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		97.7 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2S1-10
T194134-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-1
T194134-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	14	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		76.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	35	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	9.6	2.0	"	"	"	"	"	"	
Cobalt	4.9	2.0	"	"	"	"	"	"	
Copper	9.3	1.0	"	"	"	"	"	"	
Lead	6.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	19	5.0	"	"	"	"	"	"	
Zinc	30	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Reported:
12/10/19 08:32

SB2W1-1
T194134-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0083	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

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Mike Jaroudi, Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-1
T194134-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0083	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.1 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.



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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-1
T194134-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-5
T194134-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		52.7 %	65-135		"	"	"	"	S-03

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	27	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.4	2.0	"	"	"	"	"	"	
Cobalt	3.7	2.0	"	"	"	"	"	"	
Copper	8.9	1.0	"	"	"	"	"	"	
Lead	4.3	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	15	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-5
T194134-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0086	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

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Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-5
T194134-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0086	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.0 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-5
T194134-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-10
T194134-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		58.9 %	65-135		"	"	"	"	S-03

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	12/04/19	"	
Arsenic	ND	5.0	"	"	"	"	12/04/19	"	
Barium	22	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	9.5	2.0	"	"	"	"	"	"	
Cobalt	4.5	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	12/04/19	"	
Lead	4.8	3.0	"	"	"	"	12/04/19	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.1	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	12/04/19	"	
Zinc	23	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-10
T194134-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0092	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-10
T194134-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0028	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0028	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0092	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		91.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	77.8-142		"	"	"	"	

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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W1-10
T194134-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-1
T194134-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		75.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	37	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	7.6	1.0	"	"	"	"	"	"	
Lead	3.9	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-1
T194134-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0043	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0043	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0043	"	"	"	"	"	"	
Bromoform	ND	0.0043	"	"	"	"	"	"	
Bromomethane	ND	0.0043	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0043	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0043	"	"	"	"	"	"	
Chlorobenzene	ND	0.0043	"	"	"	"	"	"	
Chloroethane	ND	0.0043	"	"	"	"	"	"	
Chloroform	ND	0.0043	"	"	"	"	"	"	
Chloromethane	ND	0.0043	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0043	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0085	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0043	"	"	"	"	"	"	
Dibromomethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0043	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0043	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0043	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0043	"	"	"	"	"	"	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-1
T194134-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0043	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0043	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0043	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0043	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0043	"	"	"	"	"	"	
Methylene chloride	ND	0.0043	"	"	"	"	"	"	
Naphthalene	ND	0.0043	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0043	"	"	"	"	"	"	
Styrene	ND	0.0043	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0043	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0043	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0043	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0043	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0043	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0043	"	"	"	"	"	"	
Vinyl chloride	ND	0.0043	"	"	"	"	"	"	
Benzene	ND	0.0043	"	"	"	"	"	"	
Toluene	ND	0.0043	"	"	"	"	"	"	
Ethylbenzene	ND	0.0043	"	"	"	"	"	"	
m,p-Xylene	ND	0.0085	"	"	"	"	"	"	
o-Xylene	ND	0.0043	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.9 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.6 %	77.8-142		"	"	"	"	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-1
T194134-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-5
T194134-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		76.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	22	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	9.2	2.0	"	"	"	"	"	"	
Cobalt	4.3	2.0	"	"	"	"	"	"	
Copper	8.7	1.0	"	"	"	"	"	"	
Lead	7.8	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	"	"	
Zinc	23	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-5
T194134-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0084	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-5
T194134-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0084	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.7 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	77.8-142		"	"	"	"	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-5
T194134-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
12/10/19 08:32

SB2W2-10
T194134-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		78.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	21	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.2	2.0	"	"	"	"	"	"	
Cobalt	3.9	2.0	"	"	"	"	"	"	
Copper	9.8	1.0	"	"	"	"	"	"	
Lead	4.0	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	15	5.0	"	"	"	"	"	"	
Zinc	23	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-10
T194134-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0042	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0042	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0042	"	"	"	"	"	"	
Bromoform	ND	0.0042	"	"	"	"	"	"	
Bromomethane	ND	0.0042	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0042	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0042	"	"	"	"	"	"	
Chlorobenzene	ND	0.0042	"	"	"	"	"	"	
Chloroethane	ND	0.0042	"	"	"	"	"	"	
Chloroform	ND	0.0042	"	"	"	"	"	"	
Chloromethane	ND	0.0042	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0042	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0084	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0042	"	"	"	"	"	"	
Dibromomethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0042	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0042	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0042	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0042	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-10
T194134-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0042	mg/kg	1	9120328	12/03/19	12/06/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0042	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0042	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0042	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0042	"	"	"	"	"	"	
Methylene chloride	ND	0.0042	"	"	"	"	"	"	
Naphthalene	ND	0.0042	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0042	"	"	"	"	"	"	
Styrene	ND	0.0042	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0042	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0042	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0042	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0042	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0042	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0042	"	"	"	"	"	"	
Vinyl chloride	ND	0.0042	"	"	"	"	"	"	
Benzene	ND	0.0042	"	"	"	"	"	"	
Toluene	ND	0.0042	"	"	"	"	"	"	
Ethylbenzene	ND	0.0042	"	"	"	"	"	"	
m,p-Xylene	ND	0.0084	"	"	"	"	"	"	
o-Xylene	ND	0.0042	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		95.1 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2W2-10
T194134-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-1
T194134-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		77.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	44	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	6.3	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	19	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	110	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-1
T194134-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0088	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-1
T194134-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0088	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		89.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-1
T194134-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-5
T194134-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/03/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		83.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	27	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	9.6	2.0	"	"	"	"	"	"	
Cobalt	4.5	2.0	"	"	"	"	"	"	
Copper	5.5	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	24	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-5
T194134-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0067	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0067	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0067	"	"	"	"	"	"	
Bromoform	ND	0.0067	"	"	"	"	"	"	
Bromomethane	ND	0.0067	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0067	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0067	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0067	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0067	"	"	"	"	"	"	
Chlorobenzene	ND	0.0067	"	"	"	"	"	"	
Chloroethane	ND	0.0067	"	"	"	"	"	"	
Chloroform	ND	0.0067	"	"	"	"	"	"	
Chloromethane	ND	0.0067	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0067	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0067	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0067	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.013	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0067	"	"	"	"	"	"	
Dibromomethane	ND	0.0067	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0067	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0067	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0067	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0067	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0067	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0067	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0067	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0067	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0067	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0067	"	"	"	"	"	"	

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Mike Jaroudi, Project Manager



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-5
T194134-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0067	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0067	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0067	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0067	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0067	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0067	"	"	"	"	"	"	
Methylene chloride	ND	0.0067	"	"	"	"	"	"	
Naphthalene	ND	0.0067	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0067	"	"	"	"	"	"	
Styrene	ND	0.0067	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0067	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0067	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0040	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0067	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0067	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0067	"	"	"	"	"	"	
Trichloroethene	ND	0.0040	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0067	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0067	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0067	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0067	"	"	"	"	"	"	
Vinyl chloride	ND	0.0067	"	"	"	"	"	"	
Benzene	ND	0.0067	"	"	"	"	"	"	
Toluene	ND	0.0067	"	"	"	"	"	"	
Ethylbenzene	ND	0.0067	"	"	"	"	"	"	
m,p-Xylene	ND	0.013	"	"	"	"	"	"	
o-Xylene	ND	0.0067	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.1 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		93.4 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-5
T194134-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-10
T194134-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/04/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		80.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	30	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	4.8	2.0	"	"	"	"	"	"	
Copper	9.7	1.0	"	"	"	"	"	"	
Lead	4.2	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	"	"	
Zinc	26	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SB2N2-10
T194134-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0041	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0041	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0041	"	"	"	"	"	"	
Bromoform	ND	0.0041	"	"	"	"	"	"	
Bromomethane	ND	0.0041	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0041	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0041	"	"	"	"	"	"	
Chlorobenzene	ND	0.0041	"	"	"	"	"	"	
Chloroethane	ND	0.0041	"	"	"	"	"	"	
Chloroform	ND	0.0041	"	"	"	"	"	"	
Chloromethane	ND	0.0041	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0041	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0083	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0041	"	"	"	"	"	"	
Dibromomethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0041	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0041	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0041	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0041	"	"	"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-10
T194134-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0041	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0041	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0041	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0041	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0041	"	"	"	"	"	"	
Methylene chloride	ND	0.0041	"	"	"	"	"	"	
Naphthalene	ND	0.0041	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0041	"	"	"	"	"	"	
Styrene	ND	0.0041	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0041	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0025	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0041	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0041	"	"	"	"	"	"	
Trichloroethene	ND	0.0025	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0041	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0041	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0041	"	"	"	"	"	"	
Vinyl chloride	ND	0.0041	"	"	"	"	"	"	
Benzene	ND	0.0041	"	"	"	"	"	"	
Toluene	ND	0.0041	"	"	"	"	"	"	
Ethylbenzene	ND	0.0041	"	"	"	"	"	"	
m,p-Xylene	ND	0.0083	"	"	"	"	"	"	
o-Xylene	ND	0.0041	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.4 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	77.8-142		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N2-10
T194134-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-1
T194134-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/04/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	29	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		77.8 %		65-135	"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	52	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	12/04/19	"	
Cadmium	ND	2.0	"	"	"	"	12/04/19	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	6.5	2.0	"	"	"	"	"	"	
Copper	11	1.0	"	"	"	"	"	"	
Lead	21	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	79	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SB2N1-1
T194134-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0044	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0044	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0044	"	"	"	"	"	"	
Bromoform	ND	0.0044	"	"	"	"	"	"	
Bromomethane	ND	0.0044	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0044	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0044	"	"	"	"	"	"	
Chlorobenzene	ND	0.0044	"	"	"	"	"	"	
Chloroethane	ND	0.0044	"	"	"	"	"	"	
Chloroform	ND	0.0044	"	"	"	"	"	"	
Chloromethane	ND	0.0044	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0044	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0087	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0044	"	"	"	"	"	"	
Dibromomethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0044	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0044	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0044	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0044	"	"	"	"	"	"	

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Project Manager: David Horrell

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12/10/19 08:32

SB2N1-1
T194134-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0044	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0044	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0044	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0044	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0044	"	"	"	"	"	"	
Methylene chloride	ND	0.0044	"	"	"	"	"	"	
Naphthalene	ND	0.0044	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0044	"	"	"	"	"	"	
Styrene	ND	0.0044	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0044	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0026	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0044	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0044	"	"	"	"	"	"	
Trichloroethene	ND	0.0026	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0044	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0044	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0044	"	"	"	"	"	"	
Vinyl chloride	ND	0.0044	"	"	"	"	"	"	
Benzene	ND	0.0044	"	"	"	"	"	"	
Toluene	ND	0.0044	"	"	"	"	"	"	
Ethylbenzene	ND	0.0044	"	"	"	"	"	"	
m,p-Xylene	ND	0.0087	"	"	"	"	"	"	
o-Xylene	ND	0.0044	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.8 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		98.5 %	77.8-142		"	"	"	"	

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Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-1
T194134-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-5
T194134-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120326	12/03/19	12/04/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	

Surrogate: *p*-Terphenyl 76.7 % 65-135 " " " "

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120323	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	25	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	8.0	2.0	"	"	"	"	"	"	
Cobalt	4.2	2.0	"	"	"	"	"	"	
Copper	9.7	1.0	"	"	"	"	"	"	
Lead	3.5	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120324	12/03/19	12/05/19	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-5
T194134-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0048	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0048	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0048	"	"	"	"	"	"	
Bromoform	ND	0.0048	"	"	"	"	"	"	
Bromomethane	ND	0.0048	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0048	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0048	"	"	"	"	"	"	
Chlorobenzene	ND	0.0048	"	"	"	"	"	"	
Chloroethane	ND	0.0048	"	"	"	"	"	"	
Chloroform	ND	0.0048	"	"	"	"	"	"	
Chloromethane	ND	0.0048	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0048	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0095	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0048	"	"	"	"	"	"	
Dibromomethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0048	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0048	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0048	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0048	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-5
T194134-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0048	mg/kg	1	9120328	12/03/19	12/07/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0048	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0048	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0048	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0048	"	"	"	"	"	"	
Methylene chloride	ND	0.0048	"	"	"	"	"	"	
Naphthalene	ND	0.0048	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0048	"	"	"	"	"	"	
Styrene	ND	0.0048	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0048	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0029	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0048	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0048	"	"	"	"	"	"	
Trichloroethene	ND	0.0029	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0048	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0048	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0048	"	"	"	"	"	"	
Vinyl chloride	ND	0.0048	"	"	"	"	"	"	
Benzene	ND	0.0048	"	"	"	"	"	"	
Toluene	ND	0.0048	"	"	"	"	"	"	
Ethylbenzene	ND	0.0048	"	"	"	"	"	"	
m,p-Xylene	ND	0.0095	"	"	"	"	"	"	
o-Xylene	ND	0.0048	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.2 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		88.1 %	77.8-142		"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-5
T194134-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: SM19-259094
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Reported:
12/10/19 08:32

SB2N1-10
T194134-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120334	12/03/19	12/04/19	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		99.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120329	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	22	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	6.4	2.0	"	"	"	"	"	"	
Cobalt	3.8	2.0	"	"	"	"	"	"	
Copper	6.8	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	14	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120332	12/03/19	12/09/19	EPA 7471A Soil	
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-10
T194134-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	0.0046	mg/kg	1	9120223	12/03/19	12/05/19	EPA 8260B/5035	
Bromochloromethane	ND	0.0046	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0046	"	"	"	"	"	"	
Bromoform	ND	0.0046	"	"	"	"	"	"	
Bromomethane	ND	0.0046	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0046	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0046	"	"	"	"	"	"	
Chlorobenzene	ND	0.0046	"	"	"	"	"	"	
Chloroethane	ND	0.0046	"	"	"	"	"	"	
Chloroform	ND	0.0046	"	"	"	"	"	"	
Chloromethane	ND	0.0046	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0046	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0091	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0046	"	"	"	"	"	"	
Dibromomethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0046	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0046	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0046	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0046	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-10
T194134-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	0.0046	mg/kg	1	9120223	12/03/19	12/05/19	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0046	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0046	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0046	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0046	"	"	"	"	"	"	
Methylene chloride	ND	0.0046	"	"	"	"	"	"	
Naphthalene	ND	0.0046	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0046	"	"	"	"	"	"	
Styrene	ND	0.0046	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0046	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0027	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0046	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0046	"	"	"	"	"	"	
Trichloroethene	ND	0.0027	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0046	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0046	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0046	"	"	"	"	"	"	
Vinyl chloride	ND	0.0046	"	"	"	"	"	"	
Benzene	ND	0.0046	"	"	"	"	"	"	
Toluene	ND	0.0046	"	"	"	"	"	"	
Ethylbenzene	ND	0.0046	"	"	"	"	"	"	
m,p-Xylene	ND	0.0091	"	"	"	"	"	"	
o-Xylene	ND	0.0046	"	"	"	"	"	"	
Surrogate: Toluene-d8		81.3 %	76.1-127		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	85.9-114		"	"	"	"	
Surrogate: Dibromofluoromethane		99.2 %	77.8-142		"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

SB2N1-10
T194134-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

IDW-1
T194134-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015B

C6-C12 (GRO)	ND	10	mg/kg	1	9120334	12/03/19	12/04/19	EPA 8015B	
C13-C28 (DRO)	18	10	"	"	"	"	"	"	
C29-C40 (MORO)	120	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		98.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	9120329	12/03/19	12/04/19	EPA 6010b	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	47	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	6.3	2.0	"	"	"	"	"	"	
Copper	17	1.0	"	"	"	"	"	"	
Lead	24	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.1	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	75	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	9120332	12/03/19	12/09/19	EPA 7471A Soil	
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120326 - EPA 3550B GC

Blank (9120326-BLK1)

Prepared & Analyzed: 12/03/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	80.1		"	101		79.3	65-135			

LCS (9120326-BS1)

Prepared & Analyzed: 12/03/19

C13-C28 (DRO)	420	10	mg/kg	505		82.8	75-125			
Surrogate: <i>p</i> -Terphenyl	78.5		"	101		77.7	65-135			

LCS Dup (9120326-BSD1)

Prepared & Analyzed: 12/03/19

C13-C28 (DRO)	400	10	mg/kg	505		80.1	75-125	3.40	20	
Surrogate: <i>p</i> -Terphenyl	75.0		"	101		74.3	65-135			

Batch 9120334 - EPA 3550B GC

Blank (9120334-BLK1)

Prepared: 12/03/19 Analyzed: 12/04/19

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	99.5		"	100		99.5	65-135			

LCS (9120334-BS1)

Prepared: 12/03/19 Analyzed: 12/04/19

C13-C28 (DRO)	510	10	mg/kg	500		102	75-125			
Surrogate: <i>p</i> -Terphenyl	99.4		"	100		99.4	65-135			

LCS Dup (9120334-BSD1)

Prepared: 12/03/19 Analyzed: 12/04/19

C13-C28 (DRO)	500	10	mg/kg	500		101	75-125	1.03	20	
Surrogate: <i>p</i> -Terphenyl	96.2		"	100		96.2	65-135			

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Mike Jaroudi, Project Manager



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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120323 - EPA 3050B

Blank (9120323-BLK1)

Prepared: 12/03/19 Analyzed: 12/04/19

Antimony	ND	3.0	mg/kg
Silver	ND	2.0	"
Arsenic	ND	5.0	"
Barium	ND	1.0	"
Beryllium	ND	1.0	"
Cadmium	ND	2.0	"
Chromium	ND	2.0	"
Cobalt	ND	2.0	"
Copper	ND	1.0	"
Lead	ND	3.0	"
Molybdenum	ND	5.0	"
Nickel	ND	2.0	"
Selenium	ND	5.0	"
Thallium	ND	5.0	"
Vanadium	ND	5.0	"
Zinc	ND	1.0	"

LCS (9120323-BS1)

Prepared: 12/03/19 Analyzed: 12/04/19

Arsenic	102	5.0	mg/kg	100	102	75-125
Barium	106	1.0	"	100	106	75-125
Cadmium	106	2.0	"	100	106	75-125
Chromium	105	2.0	"	100	105	75-125
Lead	107	3.0	"	100	107	75-125

Matrix Spike (9120323-MS1)

Source: T194134-01

Prepared: 12/03/19 Analyzed: 12/04/19

Arsenic	85.9	5.0	mg/kg	93.5	1.81	90.0	75-125
Barium	137	1.0	"	93.5	54.9	87.9	75-125
Cadmium	80.7	2.0	"	93.5	0.732	85.6	75-125
Chromium	90.9	2.0	"	93.5	11.4	85.1	75-125
Lead	102	3.0	"	93.5	27.0	79.9	75-125

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120323 - EPA 3050B

Matrix Spike Dup (9120323-MSD1)

Source: T194134-01

Prepared: 12/03/19 Analyzed: 12/04/19

Arsenic	89.1	5.0	mg/kg	96.2	1.81	90.8	75-125	3.63	20	
Barium	135	1.0	"	96.2	54.9	83.4	75-125	1.40	20	
Cadmium	85.1	2.0	"	96.2	0.732	87.8	75-125	5.34	20	
Chromium	96.3	2.0	"	96.2	11.4	88.3	75-125	5.82	20	
Lead	105	3.0	"	96.2	27.0	81.5	75-125	3.61	20	

Batch 9120329 - EPA 3050B

Blank (9120329-BLK1)

Prepared: 12/03/19 Analyzed: 12/04/19

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	5.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (9120329-BS1)

Prepared: 12/03/19 Analyzed: 12/04/19

Arsenic	103	5.0	mg/kg	100		103	75-125			
Barium	106	1.0	"	100		106	75-125			
Cadmium	107	2.0	"	100		107	75-125			
Chromium	107	2.0	"	100		107	75-125			
Lead	104	3.0	"	100		104	75-125			

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120329 - EPA 3050B

Matrix Spike (9120329-MS1)

Source: T194134-33

Prepared: 12/03/19 Analyzed: 12/04/19

Arsenic	109	5.0	mg/kg	96.2	2.81	110	75-125			
Barium	125	1.0	"	96.2	21.7	108	75-125			
Cadmium	97.5	2.0	"	96.2	0.122	101	75-125			
Chromium	107	2.0	"	96.2	6.36	105	75-125			
Lead	100	3.0	"	96.2	2.50	101	75-125			

Matrix Spike Dup (9120329-MSD1)

Source: T194134-33

Prepared: 12/03/19 Analyzed: 12/04/19

Arsenic	94.7	5.0	mg/kg	91.7	2.81	100	75-125	13.6	20	
Barium	113	1.0	"	91.7	21.7	99.3	75-125	10.4	20	
Cadmium	85.9	2.0	"	91.7	0.122	93.5	75-125	12.6	20	
Chromium	94.9	2.0	"	91.7	6.36	96.5	75-125	12.5	20	
Lead	88.2	3.0	"	91.7	2.50	93.4	75-125	12.5	20	

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Project Manager: David Horrell

Reported:
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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120324 - EPA 7471A Soil

Blank (9120324-BLK1)				Prepared: 12/03/19 Analyzed: 12/05/19						
Mercury	ND	0.10	mg/kg							
LCS (9120324-BS1)				Prepared: 12/03/19 Analyzed: 12/05/19						
Mercury	0.403	0.10	mg/kg	0.403		100	80-120			
Matrix Spike (9120324-MS1)				Source: T194134-01 Prepared: 12/03/19 Analyzed: 12/05/19						
Mercury	0.379	0.10	mg/kg	0.385	ND	98.5	75-125			
Matrix Spike Dup (9120324-MSD1)				Source: T194134-01 Prepared: 12/03/19 Analyzed: 12/05/19						
Mercury	0.394	0.10	mg/kg	0.397	ND	99.2	75-125	3.86	20	

Batch 9120332 - EPA 7471A Soil

Blank (9120332-BLK1)				Prepared: 12/03/19 Analyzed: 12/09/19						
Mercury	ND	0.10	mg/kg							
LCS (9120332-BS1)				Prepared: 12/03/19 Analyzed: 12/09/19						
Mercury	0.414	0.10	mg/kg	0.403		103	80-120			
Matrix Spike (9120332-MS1)				Source: T194134-33 Prepared: 12/03/19 Analyzed: 12/09/19						
Mercury	0.397	0.10	mg/kg	0.385	ND	103	75-125			
Matrix Spike Dup (9120332-MSD1)				Source: T194134-33 Prepared: 12/03/19 Analyzed: 12/09/19						
Mercury	0.426	0.10	mg/kg	0.417	ND	102	75-125	7.17	20	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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12/10/19 08:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120223 - EPA 5035 GCMS

Blank (9120223-BLK1)

Prepared: 12/02/19 Analyzed: 12/04/19

Bromobenzene	ND	0.0050	mg/kg
Bromochloromethane	ND	0.0050	"
Bromodichloromethane	ND	0.0050	"
Bromoform	ND	0.0050	"
Bromomethane	ND	0.0050	"
n-Butylbenzene	ND	0.0050	"
sec-Butylbenzene	ND	0.0050	"
tert-Butylbenzene	ND	0.0050	"
Carbon tetrachloride	ND	0.0050	"
Chlorobenzene	ND	0.0050	"
Chloroethane	ND	0.0050	"
Chloroform	ND	0.0050	"
Chloromethane	ND	0.0050	"
2-Chlorotoluene	ND	0.0050	"
4-Chlorotoluene	ND	0.0050	"
Dibromochloromethane	ND	0.0050	"
1,2-Dibromo-3-chloropropane	ND	0.010	"
1,2-Dibromoethane (EDB)	ND	0.0050	"
Dibromomethane	ND	0.0050	"
1,2-Dichlorobenzene	ND	0.0050	"
1,3-Dichlorobenzene	ND	0.0050	"
1,4-Dichlorobenzene	ND	0.0050	"
Dichlorodifluoromethane	ND	0.0050	"
1,1-Dichloroethane	ND	0.0050	"
1,2-Dichloroethane	ND	0.0050	"
1,1-Dichloroethene	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"

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Project Manager: David Horrell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120223 - EPA 5035 GCMS

Blank (9120223-BLK1)

Prepared: 12/02/19 Analyzed: 12/04/19

p-Isopropyltoluene	ND	0.0050	mg/kg							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0030	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0030	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							

Surrogate: Toluene-d8	0.0993		"	0.100	99.3	76.1-127
Surrogate: 4-Bromofluorobenzene	0.110		"	0.100	110	85.9-114
Surrogate: Dibromofluoromethane	0.0889		"	0.100	88.9	77.8-142

LCS (9120223-BS1)

Prepared: 12/02/19 Analyzed: 12/04/19

Chlorobenzene	0.0984	0.0050	mg/kg	0.100	98.4	75-125
1,1-Dichloroethene	0.0760	0.0050	"	0.100	76.0	75-125
Trichloroethene	0.0955	0.0030	"	0.100	95.5	75-125
Benzene	0.0885	0.0050	"	0.100	88.5	75-125
Toluene	0.0902	0.0050	"	0.100	90.2	75-125
Surrogate: Toluene-d8	0.0963		"	0.100	96.3	76.1-127
Surrogate: 4-Bromofluorobenzene	0.104		"	0.100	104	85.9-114
Surrogate: Dibromofluoromethane	0.0922		"	0.100	92.2	77.8-142

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Project Manager: David Horrell

Reported:
12/10/19 08:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120223 - EPA 5035 GCMS

LCS Dup (9120223-BSD1)

Prepared: 12/02/19 Analyzed: 12/05/19

Chlorobenzene	0.0977	0.0050	mg/kg	0.100		97.7	75-125	0.694	20	
1,1-Dichloroethene	0.0763	0.0050	"	0.100		76.3	75-125	0.420	20	
Trichloroethene	0.0914	0.0030	"	0.100		91.4	75-125	4.39	20	
Benzene	0.0860	0.0050	"	0.100		86.0	75-125	2.86	20	
Toluene	0.0901	0.0050	"	0.100		90.1	75-125	0.111	20	
Surrogate: Toluene-d8	0.0999		"	0.100		99.9	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.100		103	85.9-114			
Surrogate: Dibromofluoromethane	0.0911		"	0.100		91.1	77.8-142			

Batch 9120328 - EPA 5035 GCMS

Blank (9120328-BLK1)

Prepared: 12/03/19 Analyzed: 12/06/19

Bromobenzene	ND	0.0050	mg/kg							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							

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Project Manager: David Horrell

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120328 - EPA 5035 GCMS

Blank (9120328-BLK1)

Prepared: 12/03/19 Analyzed: 12/06/19

1,2-Dichloroethane	ND	0.0050	mg/kg
1,1-Dichloroethane	ND	0.0050	"
cis-1,2-Dichloroethene	ND	0.0050	"
trans-1,2-Dichloroethene	ND	0.0050	"
1,2-Dichloropropane	ND	0.0050	"
1,3-Dichloropropane	ND	0.0050	"
2,2-Dichloropropane	ND	0.0050	"
1,1-Dichloropropene	ND	0.0050	"
cis-1,3-Dichloropropene	ND	0.0050	"
trans-1,3-Dichloropropene	ND	0.0050	"
Hexachlorobutadiene	ND	0.0050	"
Isopropylbenzene	ND	0.0050	"
p-Isopropyltoluene	ND	0.0050	"
Methylene chloride	ND	0.0050	"
Naphthalene	ND	0.0050	"
n-Propylbenzene	ND	0.0050	"
Styrene	ND	0.0050	"
1,1,2,2-Tetrachloroethane	ND	0.0050	"
1,1,1,2-Tetrachloroethane	ND	0.0050	"
Tetrachloroethene	ND	0.0030	"
1,2,3-Trichlorobenzene	ND	0.0050	"
1,2,4-Trichlorobenzene	ND	0.0050	"
1,1,2-Trichloroethane	ND	0.0050	"
1,1,1-Trichloroethane	ND	0.0050	"
Trichloroethene	ND	0.0030	"
Trichlorofluoromethane	ND	0.0050	"
1,2,3-Trichloropropane	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
1,2,4-Trimethylbenzene	ND	0.0050	"
Vinyl chloride	ND	0.0050	"
Benzene	ND	0.0050	"
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
m,p-Xylene	ND	0.010	"
o-Xylene	ND	0.0050	"

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120328 - EPA 5035 GCMS

Blank (9120328-BLK1)

Prepared: 12/03/19 Analyzed: 12/06/19

Surrogate: Toluene-d8	0.0372		mg/kg	0.0400		93.0	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	85.9-114			
Surrogate: Dibromofluoromethane	0.0379		"	0.0400		94.8	77.8-142			AO-1

LCS (9120328-BS1)

Prepared: 12/03/19 Analyzed: 12/06/19

Chlorobenzene	0.0747	0.0050	mg/kg	0.100		74.7	75-125			AO-1
1,1-Dichloroethene	0.0655	0.0050	"	0.100		65.5	70-125			AO-1
Trichloroethene	0.0753	0.0030	"	0.100		75.3	75-125			
Benzene	0.0798	0.0050	"	0.100		79.8	75-125			
Toluene	0.0777	0.0050	"	0.100		77.7	75-125			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	85.9-114			
Surrogate: Dibromofluoromethane	0.0373		"	0.0400		93.2	77.8-142			

LCS Dup (9120328-BSD1)

Prepared: 12/03/19 Analyzed: 12/09/19

Chlorobenzene	0.0698	0.0050	mg/kg	0.100		69.8	75-125	6.76	20	AO-1a
1,1-Dichloroethene	0.0673	0.0050	"	0.100		67.3	70-125	2.65	20	AO-1a
Trichloroethene	0.0724	0.0030	"	0.100		72.4	75-125	3.87	20	AO-1a
Benzene	0.0788	0.0050	"	0.100		78.8	75-125	1.19	20	
Toluene	0.0820	0.0050	"	0.100		82.0	75-125	5.36	20	
Surrogate: Toluene-d8	0.0390		"	0.0400		97.5	76.1-127			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	85.9-114			
Surrogate: Dibromofluoromethane	0.0386		"	0.0400		96.6	77.8-142			

SunStar Laboratories, Inc.



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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 08:32

Notes and Definitions

S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.

RE-01 Sample contained analytes with concentrations above calibration limits and was rerun at a dilution.

AO-1a The spike recovery for this compound is below acceptance criteria, however the samples are ND for this compound, so the data is acceptable.

AO-1 The spike recovery for this compound is below acceptance criteria, however the samples are ND for this compound, so the data is acceptable

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/27/19 Page: 1 Of 3
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-251094
Batch #: 7194134 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
01	SB2E2-1'	11/27/19	0719	Soil	VOAs + Jar	X					X		X	X				4
02	SB2E2-5'		0726			X							X	X				4
03	SB2E2-10'		0730			X							X	X				4
04	SB2E2-15'		0740															4
05	SB2E2-23'		0742															4
06	SB2E1-1'		0800			X							X	X				4
07	SB2E1-5'		0805			X							X	X				4
08	SB2E1-10'		0810			X							X	X				4
09	SB2E1-15'		0817															4
10	SB2E1-24' ^{24' DH}		0830															4
11	SB2S1-1'		0845			X							X	X				4
12	SB2S1-5'		0850			X							X	X				4
13	SB2S1-10'		0855			X							X	X				4
14	SB2S1-15'		0900															4
15	SB2S1-24'		0910															4

Relinquished by: (signature) <u>David Horrell</u>	Date / Time <u>12/2/19 @ 1310</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>12-2-19 13:10</u>	Total # of containers <u>60</u>	Notes 4.7°C 5.2°C
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA <u>Y</u>	
Received good condition/cold				Turn around time: <u>Std.</u>	

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190202



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave, Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/27/19 Page: 2 Of 3
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: 1794124 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
16	SB2 W1 - 1'	11/27/19	0920	Soil	VOAs+Jar	X							X	X				4
17	SB2 W1 - 5'		0928			X							X	X				4
18	SB2 W1 - 10'		0933			X							X	X				4
19	SB2 W1 - 15'		0940														HOLD	4
20	SB2 W1 - 25'		0952														HOLD	4
21	SB2 W2 - 1'		1020			X							X	X				4
22	SB2 W2 - 5'		1025			X							X	X				4
23	SB2 W2 - 10'		1030			X							X	X				4
24	SB2 W2 - 15'		1036														HOLD	4
25	SB2 W2 - 23'		1045														HOLD	4
26	SB2 N2 - 1'		1153			X							X	X				4
27	SB2 N2 - 5'		1200			X							X	X				4
28	SB2 N2 - 10'		1204			X							X	X				4
29	SB2 N2 - 15'		1210														HOLD	4
30	SB2 N2 - 24'	↓	1220	↓	↓												HOLD	4
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Received good condition/cold		Notes		
<i>David Horrell</i>		12/2/19 @ 1310		<i>[Signature]</i>		12-2-19 13:10		60								4.7°C 5.2°C		
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												
Turn around time: <u>Std.</u>																		

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190201

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: D. Horrell

Date: 11/27/19 Page: 3 Of 3
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: 7199134 EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190200

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

7794134

Client Name:

PARTNER - SANTA ANA

Project:

WHITTAM FONTANA

Delivered by:

☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier

Received:

Lab Received by:

Date/Time Lab

Received:

SUNASY

12-2-19 / 13:10

Total number of coolers received: 2

Thermometer ID: SC-1

Calibration due : 6/27/20

Temperature: Cooler #1 2.5 °C +/- the CF (+ 1.2°C) = 4.7 °C corrected temperature

Temperature: Cooler #2 4.0 °C +/- the CF (+ 1.2°C) = 5.2 °C corrected temperature

Temperature: Cooler #3 °C +/- the CF (+ 1.2°C) = °C corrected temperature

**Temperature criteria = ≤ 6°C
(no frozen containers)**

Within criteria?

☒ Yes ☐ No

If NO:

Samples received on ice?

☐ Yes

☐ No →

Complete Non-Conformance Sheet

If on ice, samples received same day collected?

☐ Yes → Acceptable

☐ No →

Complete Non-Conformance Sheet

Custody seals intact on cooler/sample

☐ Yes ☐ No* ☒ N/A

Sample containers intact

☒ Yes ☐ No*

Sample labels match Chain of Custody IDs

☒ Yes ☐ No*

Total number of containers received match COC

☒ Yes ☐ No*

Proper containers received for analyses requested on COC

☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested

☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times

☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date:

SL 12-2-19

Comments:

WORK ORDER

T194134

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/09/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 12/02/19 13:10

Logged In By: Sunny Lounethone

Date Logged In: 12/02/19 15:27

Samples Received at: **4.7°C**

Custody Seals No Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T194134-01 SB2E2-1 [Soil] Sampled 11/27/19 07:19 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/09/19 15:00	5	05/25/20 07:19
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 07:19
8260 5035	12/09/19 15:00	5	12/11/19 07:19

T194134-02 SB2E2-5 [Soil] Sampled 11/27/19 07:26 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/09/19 15:00	5	05/25/20 07:26
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 07:26
8260 5035	12/09/19 15:00	5	12/11/19 07:26

T194134-03 SB2E2-10 [Soil] Sampled 11/27/19 07:30 (GMT-08:00) Pacific Time (US &

6010 Title 22	12/09/19 15:00	5	05/25/20 07:30
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 07:30
8260 5035	12/09/19 15:00	5	12/11/19 07:30

T194134-04 SB2E2-15 [Soil] Sampled 11/27/19 07:40 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T194134-05 SB2E2-23 [Soil] Sampled 11/27/19 07:42 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T194134

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194134-06 SB2E1-1 [Soil] Sampled 11/27/19 08:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 08:00	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 08:00	
8260 5035	12/09/19 15:00	5	12/11/19 08:00	
T194134-07 SB2E1-5 [Soil] Sampled 11/27/19 08:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 08:05	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 08:05	
8260 5035	12/09/19 15:00	5	12/11/19 08:05	
T194134-08 SB2E1-10 [Soil] Sampled 11/27/19 08:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 08:10	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 08:10	
8260 5035	12/09/19 15:00	5	12/11/19 08:10	
T194134-09 SB2E1-15 [Soil] Sampled 11/27/19 08:17 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-10 SB2E1-24 [Soil] Sampled 11/27/19 08:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-11 SB2S1-1 [Soil] Sampled 11/27/19 08:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 08:45	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 08:45	
8260 5035	12/09/19 15:00	5	12/11/19 08:45	
T194134-12 SB2S1-5 [Soil] Sampled 11/27/19 08:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 08:50	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 08:50	
8260 5035	12/09/19 15:00	5	12/11/19 08:50	

WORK ORDER

T194134

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194134-13 SB2S1-10 [Soil] Sampled 11/27/19 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 08:55	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 08:55	
8260 5035	12/09/19 15:00	5	12/11/19 08:55	
T194134-14 SB2S1-15 [Soil] Sampled 11/27/19 09:00 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T194134-15 SB2S1-24 [Soil] Sampled 11/27/19 09:10 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T194134-16 SB2W1-1 [Soil] Sampled 11/27/19 09:20 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 09:20	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 09:20	
8260 5035	12/09/19 15:00	5	12/11/19 09:20	
T194134-17 SB2W1-5 [Soil] Sampled 11/27/19 09:28 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 09:28	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 09:28	
8260 5035	12/09/19 15:00	5	12/11/19 09:28	
T194134-18 SB2W1-10 [Soil] Sampled 11/27/19 09:33 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 09:33	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 09:33	
8260 5035	12/09/19 15:00	5	12/11/19 09:33	
T194134-19 SB2W1-15 [Soil] Sampled 11/27/19 09:40 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T194134-20 SB2W1-25 [Soil] Sampled 11/27/19 09:52 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T194134

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194134-21 SB2W2-1 [Soil] Sampled 11/27/19 10:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 10:20	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 10:20	
8260 5035	12/09/19 15:00	5	12/11/19 10:20	
T194134-22 SB2W2-5 [Soil] Sampled 11/27/19 10:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 10:25	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 10:25	
8260 5035	12/09/19 15:00	5	12/11/19 10:25	
T194134-23 SB2W2-10 [Soil] Sampled 11/27/19 10:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 10:30	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 10:30	
8260 5035	12/09/19 15:00	5	12/11/19 10:30	
T194134-24 SB2W2-15 [Soil] Sampled 11/27/19 10:36 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-25 SB2W2-23 [Soil] Sampled 11/27/19 10:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-26 SB2N2-1 [Soil] Sampled 11/27/19 11:53 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 11:53	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 11:53	
8260 5035	12/09/19 15:00	5	12/11/19 11:53	
T194134-27 SB2N2-5 [Soil] Sampled 11/27/19 12:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 12:00	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 12:00	
8260 5035	12/09/19 15:00	5	12/11/19 12:00	

WORK ORDER

T194134

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194134-28 SB2N2-10 [Soil] Sampled 11/27/19 12:04 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 12:04	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 12:04	
8260 5035	12/09/19 15:00	5	12/11/19 12:04	
T194134-29 SB2N2-15 [Soil] Sampled 11/27/19 12:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-30 SB2N2-24 [Soil] Sampled 11/27/19 12:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-31 SB2N1-1 [Soil] Sampled 11/27/19 12:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 12:30	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 12:30	
8260 5035	12/09/19 15:00	5	12/11/19 12:30	
T194134-32 SB2N1-5 [Soil] Sampled 11/27/19 12:36 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 12:36	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 12:36	
8260 5035	12/09/19 15:00	5	12/11/19 12:36	
T194134-33 SB2N1-10 [Soil] Sampled 11/27/19 12:42 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 12:42	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 12:42	
8260 5035	12/09/19 15:00	5	12/11/19 12:42	
T194134-34 SB2N1-15 [Soil] Sampled 11/27/19 12:47 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T194134-35 SB2N1-24 [Soil] Sampled 11/27/19 13:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T194134

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194134-36 IDW-1 [Soil] Sampled 11/27/19 13:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	12/09/19 15:00	5	05/25/20 13:40	
8015 Carbon Chain	12/09/19 15:00	5	12/11/19 13:40	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

APPENDIX D-2: SOIL STLC LABORATORY ANALYSIS REPORTS



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 11/21/19 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8-W1-1	T194052-48	Soil	11/21/19 12:50	11/21/19 16:15

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:34

DETECTIONS SUMMARY

Sample ID: SB8-W1-1

Laboratory ID: T194052-48

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chromium	0.59	0.25	mg/l	STLC Waste Extraction T	

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:34

SB8-W1-1
T194052-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Chromium	0.59	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:34

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121311 - STLC Metals

Blank (9121311-BLK1)

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	ND	0.50	mg/l
Chromium	ND	0.50	"

LCS (9121311-BS1)

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.0	0.50	mg/l	10.0	100	75-125
Chromium	10.7	0.50	"	10.0	107	75-125

Matrix Spike (9121311-MS1)

Source: T194052-48

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.4	0.50	mg/l	10.0		104	75-125
Chromium	11.6	0.50	"	10.0	0.591	110	75-125

Matrix Spike Dup (9121311-MSD1)

Source: T194052-48

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.5	0.50	mg/l	10.0	105	75-125	0.385	30	
Chromium	11.7	0.50	"	10.0	0.591	111	75-125	0.676	30

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:34

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/19/19 Page: 1 Of 4
Project Name: Whittram Fontana
Collector: DH/MW Client Project #: SM19-259094
Batch #: T194052 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
01	SB6 N2-1'	11/19/19	0730	Soil	VOAs+Jer	X							X	X				4
02	SB6 N2-5'		0755			X							X	X				4
03	SB6 N2-10'		0805			X							X	X				4
04	SB6 N2-15'		0815													HOLD	4	
05	SB6 N2-25'		1020													HOLD	4	
06	SB6 N1-1'		1210			X							X	X			4	
07	SB6 N1-5'		1215			X							X	X			4	
08	SB6 N1-10'		1222			X							X	X			4	
09	SB6 N1-15'		1226													HOLD	4	
10	SB6 N1-21'		1250													HOLD	4	
11	SB6 E1-1'		1319			X							X	X			4	
12	SB6 E1-5'		1332			X							X	X			4	
13	SB6 E1-16'		1345			X							X	X			4	
14	SB6 E2-1'		1458			X							X	X			4	
15	SB6 E2-5'		1505			X							X	X			4	
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Received good condition/cold		Notes		
David Horrell		11/21/19 @ 1615		[Signature]		11/21/19 16:15		60		Y/N/NA		Y/N/NA		27C				
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Turn around time: Std.

COC 190132

Chain of Custody Record

Client: PARTNER ESI
Address: 1701 E. GARRY AV, SANTA ANA, CA
Phone: 832 265 7187 Fax: _____
Project Manager: DAVID HORRELL

Date: 11.19.19 - 11.20.19 Page: 2 Of 4
Project Name: WATERMAN FONTANA
Collector: DH/MW Client Project #: SM19-25004
Batch #: T194052 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline) DH	8015M (diesel) DH	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
16	SB6E2-10'	11.19.19	1512	SOIL	VDA/JAR	X					X	X	X	X				4
17	SB6S1-1'	11.20.19	0748			X					X	X	X	X				4
18	SB6S1-5'		0758			X					X	X	X	X				4
19	SB6S1-10'		0805			X					X	X	X	X				4
20	SB6S1-15'		0816								X	X	X	X			HOLD	4
21	SB6S2-1'		0932			X					X	X	X	X				4
22	SB6S2-5'		0944			X					X	X	X	X				4
23	SB6S2-10'		0950			X					X	X	X	X				4
24	SB6S2-15'		0958								X	X	X	X			HOLD	4
25	SB6S2-20'		1016								X	X	X	X			HOLD	4
26	SB6W1-1'		1224			X					X	X	X	X				4
27	SB6W1-5'		1241			X					X	X	X	X				4
28	SB6W1-10'		1248			X					X	X	X	X				4
29	SB6W1-15'		1256														HOLD	4
30	SB6W1-20'		1302														HOLD	4
Relinquished by: (signature) <u>David Horrell</u> Date / Time <u>11/21/19 @ 1615</u>						Received by: (signature) <u>[Signature]</u> Date / Time <u>11-21-19 1615</u>						Total # of containers <u>60</u>		Notes				
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Chain of Custody seals Y/N/NA <u>(6)</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Seals intact? Y/N/NA <u>(6)</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Received good condition/cold <u>2.7C</u>		Turn around time: <u>Std</u>				

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190130

Chain of Custody Record

Client: PARTNER ES
Address: 1761 E. GARRY AVE, SANTA ANA, CA
Phone: 949.265.7187 Fax: _____
Project Manager: DAVID HORDELL

Date: 11.19.20 Page: 3 Of 4
Project Name: WHITRAM FONTANA
Collector: MWILLIAMS Client Project #: SM19-25904
Batch #: 7194052 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline) DH	8015M (diesel) DH	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
31	SBC-W2-1'	11.20.19	1405	SOIL	VACUUM	X					X	X	X	X				4
32	SBC-W2-5'		1416			X					X	X	X	X				4
33	SBC-W2-10'		1420			X					X	X	X	X				4
34	SBC-W2-15'		1426			X					X	X	X	X				4
35	SBC-W2-20'		1446			X					X	X	X	X				4
36	SBC-N2-1'	11.21.19	0941			X					X	X	X	X				4
37	SBC-N2-5'		0952			X					X	X	X	X				4
38	SBC-N2-10'		1002			X					X	X	X	X				4
39	SBC-N2-15'		1016															4
40	SBC-N2-20'		1026															4
41	SBC-N2-25'		1036															4
42	SBC-N1-1'		0742			X					X		X	X				4
43	SBC-N1-5'		0754			X					X		X	X				4
44	SBC-N1-10'		0812			X					X		X	X				4
45	SBC-N1-15'		0819								X							4
Relinquished by: (signature) <u>David Horde</u> Date / Time <u>11/21/19 @ 1615</u>						Received by: (signature) <u>[Signature]</u> Date / Time <u>11-21-19 16:15</u>						Total # of containers <u>60</u>		Notes				
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Chain of Custody seals Y/N/NA <u>Y</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Seals intact? Y/N/NA <u>Y</u>						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Received good condition/cold <u>2.7°</u>		Turn around time: <u>Std.</u>				



949-297-5020

Chain of Custody Record

Date: 11/21/19 Page: 4 Of 4
Project Name: WHITRAM FONTANA
Collector: MW Client Project #: SM19-25904
Batch #: T194052 EDF #:

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each Return to client _____ Pickup _____

COC 161521

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T194052

Client Name: Partner ESI Project: Whittram Fontana

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Sunny Date/Time Lab Received: 11-21-19 16:15

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration Due: 6/27/20

Temperature: Cooler #1	1.5	°C +/- the CF (+ 1.2°C) =	2.7	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (+ 1.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (+ 1.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IF NO:				
Samples received on ice?		<input type="checkbox"/> Yes		<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-21-19

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 11/26/19 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8 S2 1	T194106-11	Soil	11/22/19 09:48	11/26/19 17:45
SB8 E2 1	T194106-16	Soil	11/22/19 13:40	11/26/19 17:45
SB15 S1 1	T194106-37	Soil	11/25/19 13:25	11/26/19 17:45
SB15 N1 1	T194106-49	Soil	11/26/19 10:05	11/26/19 17:45

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

DETECTIONS SUMMARY

Sample ID: SB8 S2 1

Laboratory ID: T194106-11

No Results Detected

Sample ID: SB8 E2 1

Laboratory ID: T194106-16

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chromium	1.4	0.25	mg/l	STLC Waste Extraction I	

Sample ID: SB15 S1 1

Laboratory ID: T194106-37

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chromium	0.51	0.25	mg/l	STLC Waste Extraction I	

Sample ID: SB15 N1 1

Laboratory ID: T194106-49

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	2.0	0.25	mg/l	STLC Waste Extraction I	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

SB8 S2 1
T194106-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Chromium	ND	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

SB8 E2 1
T194106-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Chromium	1.4	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

SB15 S1 1
T194106-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Chromium	0.51	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

SB15 N1 1
T194106-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Lead	2.0	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121311 - STLC Metals

Blank (9121311-BLK1)

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	ND	0.50	mg/l
Chromium	ND	0.50	"

LCS (9121311-BS1)

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.0	0.50	mg/l	10.0	100	75-125
Chromium	10.7	0.50	"	10.0	107	75-125

Matrix Spike (9121311-MS1)

Source: T194052-48

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.4	0.50	mg/l	10.0		104	75-125
Chromium	11.6	0.50	"	10.0	0.591	110	75-125

Matrix Spike Dup (9121311-MSD1)

Source: T194052-48

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.5	0.50	mg/l	10.0	105	75-125	0.385	30
Chromium	11.7	0.50	"	10.0	0.591	111	0.676	30

SunStar Laboratories, Inc.

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949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:33

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager

Chain of Custody Record

Client: PARTNER ENGINEERING & SCIENCE
Address: 1761 E. GARRY AVE, SANTA ANA, CA
Phone: 949-297-7187 Fax: _____
Project Manager: DAVID NORRELL

Date: 11.26.19 Page: 1 Of 4
Project Name: WHITTRAM MONTANA
Collector: DA/MJ Client Project #: SM19-259101A
Batch #: T194106 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
SBB WZ 1'	11.21.19	1445	SOIL	JAR/VOL	X							X	X		01		4
SBB WZ 5'		1453			X							X	X		02		4
SBB WZ 10'		1508			X							X	X		03		4
SBB WZ 15'		1516													04	HOLD	4
SBB WZ 25'															05	HOLD	4
SBB SI 1'	11.22.19	0815			X							X	X		06		4
SBB SI 5'		0825			X							X	X		07		4
SBB SI 10'		0832			X							X	X		08		4
SBB SI 15'		0844													09	HOLD	4
SBB SI 20'		0905													10	HOLD	4
SBB S2 1'		0948			X							X	X		11		4
SBB S2 5'		0954			X							X	X		12		4
SBB S2 10'		1004			X							X	X		13		4
SBB S2 15'		1010													14	HOLD	4
SBB S2 25'		1144													15	HOLD	4

Relinquished by: (signature) <u>David Norrell</u>	Date / Time <u>11/26/19 1745</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>11-26-19 17:45</u>	Total # of containers <u>35</u>	Notes
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA <u>Y</u>	
Turn around time: <u>Std.</u>				Received good condition/cold <u>3.5°C</u>	

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 161522

Chain of Custody Record

Client: PARTNER BSI
 Address: 1761 E GARRY AV, SANTA ANA, CA
 Phone: 949 265 7187 Fax: _____
 Project Manager: DAVID HORRELL

Date: 11.26.19 Page: 2 Of 4
 Project Name: WHITTRAM FONTANA
 Collector: DA/NW Client Project #: SM19-259004
 Batch #: 1194106 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
SBB E2 1'	11.22.19	1340	SOIL	JAR/VOLS	✓							✓	✓		16		4
SBB E2 5'		1348			✓							✓	✓		17		4
SBB E2 10'		1400			✓							✓	✓		18		4
SBB E2 15'		1405													19	HOLD	4
SBB E2 20'		1412													20	HOLD	4
SBB E1 1'		1432			✓							✓	✓		21		4
SBB E1 5'		1442			✓							✓	✓		22		4
SBB E1 10'		1450			✓							✓	✓		23		4
SBB E1 15'		1451													24	HOLD	4
SBB E1 20'	↓	1515													25	HOLD	4
SBS W2 1'	11.25.19	0730			✓							✓	✓		26		4
SBS W2 5'		0738			✓							✓	✓		27		4
SBS W2 10'		0742			✓							✓	✓		28		4
SBS W2 15'		0812													29	HOLD	4
SBB E2 1'	↓	0858	↓	↓											30		4
Relinquished by: (signature) <u>David Horrell</u> Date / Time <u>11/26/19 1745</u>					Received by: (signature) <u>[Signature]</u> Date / Time <u>11-26-19 17:45</u>					Total # of containers					Notes		
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Chain of Custody seals Y/N/NA							
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Seals intact? Y/N/NA							
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Received good condition/cold <u>35°C</u>					Turn around time: <u>Std.</u>		

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 161523



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11.26.19 Page: 3 Of 4
Project Name: Whittram Fontana
Collector: MW Client Project #: SM19-259094
Batch #: T194106 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
31	SB2 S2 S1	11.25.19	0904	SOIL	JAR/NOAS	X							X	X				4
32	SB2 S2 10'		0912			X							X	X				4
33	SB2 S2 15'		0919															4
34	SB2 S2 25'		0928															4
35	SB15 S2 1'		1148			X							X	X				4
36	SB15 S2 5'		1202			X							X	X				4
37	SB15 S1 1'		1335			X							X	X				4
38	SB15 W1 1'		1400			X							X	X				4
39	SB15 W1 4'		1430			X							X	X				4
40	SB15 E2 1'	11.26.19	0720			X							X	X				4
41	SB15 E2 5'		0733			X							X	X				4
42	SB15 E2 10'		0738			X							X	X				4
43	SB15 E2 15'		0747															4
44	SB15 E2 20'		0753															4
45	SB15 E1 1'		0815			X							X	X				4
Relinquished by: (signature) <u>David Horrell</u> Date / Time <u>11/26/19 @ 1745</u>						Received by: (signature) <u>[Signature]</u> Date / Time <u>11-26-19 17:45</u>						Total # of containers		Notes				
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Chain of Custody seals Y/N/NA						
												Seals intact? Y/N/NA						
Relinquished by: (signature) _____ Date / Time _____						Received by: (signature) _____ Date / Time _____						Received good condition/cold		3.5°				
												Turn around time: <u>std.</u>						

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190173

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: PARTNER ESI
Address: 1761 E. GARRY AV, SANTA ANA, CA
Phone: 949-265-7871 Fax: _____
Project Manager: DAVID HOPPEL

Date: 11.26.19 Page: 4 Of 4
Project Name: WHITTRAM FONTANA
Collector: DH/MW Client Project #: SM19-259024
Batch #: 7194106 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
46	SBIS EI 5'	11.26.19	0900	Boil	he/na	X							X	X				4
47	SBIS EI 10'		0908			X							X	X				4
48	SBIS EI 15'		0920										X	X		PH	HOLD	4
49	SBIS NI 1'		1005			X							X	X				4
50	SBIS NI 5'		1010			X							X	X				4
51	SBIS NI 10'		1018			X							X	X				4
52	SBIS NI 15'		1022										X	X		PH	HOLD	4
53	SBIS NI 25'		1035										X	X			HOLD	4
54	SBIS N2 1'		1105			X							X	X				4
55	SBIS N2 5'		1112			X							X	X				4
56	SBIS N2 10'		1116			X							X	X				4
57	SBIS N2 15'		1125														HOLD	4
																		4
																		4
																		4

Relinquished by: (signature) <u>Paul Hoppel</u>	Date / Time <u>11/26/19 @ 1745</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>11/26/19 1745</u>	Total # of containers <u>4</u>	Notes
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Received good condition/cold <u>3.5°C</u>	Turn around time: <u>std.</u>

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190172

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7794106

Client Name: PARTNER - SANTA ANA Project: UNITRAM FONTANA

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 11-26-19 / 18:05

Total number of coolers received: 0 Thermometer ID: 56-1 Calibration due: 6/27/20

Temperature: Cooler #1 <u>2.3</u>	°C +/- the CF (+ 1.2°C) = <u>3.5</u>	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 1.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 1.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☒ No*

Total number of containers received match COC ☒ Yes ☒ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☒ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 11-26-19

Comments: _____

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7194106
COOLERS

- ☐ Not Received (received COC only)
☐ Leaking/Damaged
☐ Other:

CUSTODY SEALS

- ☐ None
☐ Not Intact

TEMPERATURE (Temp criteria $\leq 6^{\circ}\text{C}$)

- ☐ Cooler/Sample Temp(s)
☐ Temperature Blank(s)

CHAIN OF CUSTODY (COC)
☐ Not relinquished by client; No date/time
relinquished

- ☐ Incomplete information provided
☐ COC not received – notify PM

CONTAINERS

- ☐ Leaking ☐ Broken
☐ Extra ☐ Missing

LABELS

- ☒ Not the same sample ID / info as on the COC
☐ Incomplete Information
☐ Markings/Info illegible

SAMPLES

- ☐ Samples **NOT RECEIVED** but listed on COC
☒ Samples received but **NOT LISTED** on COC
☐ Logged based on Label Information and not COC
☐ Logged according to Work Plan and not COC
☐ Logged in, **ON HOLD** until further notice
☐ Insufficient quantities for analysis
☐ Improper container used

- ☐ Mislabeled as to tests, preservatives, etc.
☐ Holding time expired – list sample ID and test
☐ Not preserved/Improper preservative used
☐ Without Labels, no information on containers
☐ VOA vial(s) containing headspace >6mm
☐ Other

Project Manager notified of sample non-conformance(s)

☒ Yes ☐ No

All samples accepted for processing and distributing to laboratory(ies)

☒ Yes ☐ No

For samples not accepted due to non-conformance, specify each specific sample ID being rejected in the comments section below:

Comments: SAMPLE CONTAINERS FOR (SBB SI 10, SBB SI 15, SBB SI 20, SBB SI 1, SBB SI 5, SBB SI 10, AND SBB SI 25)
WERE MISLABELED. (SBI5 NR 25) IS NOT LISTED ON COC. CONTAINERS FOR (SBI5 SI 1 & SBI5 W1 1) WERE
ALSO MISLABELED. WE LABELED THESE CONTAINERS ACCORDING TO TIME.



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 12/02/19 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB2E1-1	T194134-06	Soil	11/27/19 08:00	12/02/19 13:10
SB2S1-1	T194134-11	Soil	11/27/19 08:45	12/02/19 13:10

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:35

DETECTIONS SUMMARY

Sample ID: SB2E1-1

Laboratory ID: T194134-06

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	2.6	0.25	mg/l	STLC Waste Extraction I	

Sample ID: SB2S1-1

Laboratory ID: T194134-11

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	1.9	0.25	mg/l	STLC Waste Extraction I	

SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



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Lake Forest, California 92630
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949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:35

SB2E1-1
T194134-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Lead	2.6	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:35

SB2S1-1
T194134-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Lead	1.9	0.25	mg/l	1	9121311	12/13/19	12/17/19	STLC Waste Extraction Test	
-------------	------------	------	------	---	---------	----------	----------	----------------------------------	--

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:35

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9121311 - STLC Metals

Blank (9121311-BLK1)

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	ND	0.50	mg/l
Chromium	ND	0.50	"

LCS (9121311-BS1)

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.0	0.50	mg/l	10.0	100	75-125
Chromium	10.7	0.50	"	10.0	107	75-125

Matrix Spike (9121311-MS1)

Source: T194052-48

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.4	0.50	mg/l	10.0		104	75-125
Chromium	11.6	0.50	"	10.0	0.591	110	75-125

Matrix Spike Dup (9121311-MSD1)

Source: T194052-48

Prepared: 12/13/19 Analyzed: 12/17/19

Lead	10.5	0.50	mg/l	10.0	105	75-125	0.385	30
Chromium	11.7	0.50	"	10.0	0.591	111	0.676	30

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/18/19 15:35

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

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.

Mike Jaroudi, Project Manager



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/27/19 Page: 1 Of 3
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-251094
Batch #: 7194134 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
01	SB2E2-1'	11/27/19	0719	Soil	VOAs + Jar	X					/		X	X				4
02	SB2E2-5'		0726			X							X	X				4
03	SB2E2-10'		0730			X							X	X				4
04	SB2E2-15'		0740															4
05	SB2E2-23'		0742															4
06	SB2E1-1'		0800			X							X	X				4
07	SB2E1-5'		0805			X							X	X				4
08	SB2E1-10'		0810			X							X	X				4
09	SB2E1-15'		0817															4
10	SB2E1-24' ^{24' DH}		0830															4
11	SB2S1-1'		0845			X							X	X				4
12	SB2S1-5'		0850			X							X	X				4
13	SB2S1-10'		0855			X							X	X				4
14	SB2S1-15'		0900															4
15	SB2S1-24'		0910															4

Relinquished by: (signature) <u>David Horrell</u>	Date / Time <u>12/2/19 @ 1310</u>	Received by: (signature) <u>[Signature]</u>	Date / Time <u>12-2-19 13:10</u>	Total # of containers <u>60</u>	Notes 4.7°C 5.2°C
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Chain of Custody seals Y/N/NA <u>Y</u>	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA <u>Y</u>	
Received good condition/cold				Turn around time: <u>Std.</u>	

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190202



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave, Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/27/19 Page: 2 Of 3
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: 1794124 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Comments/Preservative	Total # of containers	
16	SB2 W1 - 1'	11/27/19	0920	Soil	VOAs+Jar	X							X	X				4
17	SB2 W1 - 5'		0928			X							X	X				4
18	SB2 W1 - 10'		0933			X							X	X				4
19	SB2 W1 - 15'		0940														HOLD	4
20	SB2 W1 - 25'		0952														HOLD	4
21	SB2 W2 - 1'		1020			X							X	X				4
22	SB2 W2 - 5'		1025			X							X	X				4
23	SB2 W2 - 10'		1030			X							X	X				4
24	SB2 W2 - 15'		1036														HOLD	4
25	SB2 W2 - 23'		1045														HOLD	4
26	SB2 N2 - 1'		1153			X							X	X				4
27	SB2 N2 - 5'		1200			X							X	X				4
28	SB2 N2 - 10'		1204			X							X	X				4
29	SB2 N2 - 15'		1210														HOLD	4
30	SB2 N2 - 24'	↓	1220	↓	↓												HOLD	4
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time		Total # of containers		Chain of Custody seals Y/N/NA		Seals intact? Y/N/NA		Received good condition/cold		Notes		
<i>David Horrell</i>		12/2/19 @ 1310		<i>[Signature]</i>		12-2-19 13:10		60								4.7°C 5.2°C		
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time												
Turn around time: <u>Std.</u>																		

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190201

Chain of Custody Record

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: D. Horrell

Date: 11/27/19 Page: 3 Of 3
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: 7194134 EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 190200

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

7794134

Client Name:

PARTNER - SANTA ANA

Project:

WHITTAM FONTANA

Delivered by:

☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier

Received:

Lab Received by:

Date/Time Lab

Received:

SUNASY

12-2-19 / 13:10

Total number of coolers received: 2

Thermometer ID: SC-1

Calibration due : 6/27/20

Temperature: Cooler #1 2.5 °C +/- the CF (+ 1.2°C) = 4.7 °C corrected temperature

Temperature: Cooler #2 4.0 °C +/- the CF (+ 1.2°C) = 5.2 °C corrected temperature

Temperature: Cooler #3 °C +/- the CF (+ 1.2°C) = °C corrected temperature

**Temperature criteria = ≤ 6°C
(no frozen containers)**

Within criteria?

☒ Yes ☐ No

If NO:

Samples received on ice?

☐ Yes

☐ No →

Complete Non-Conformance Sheet

If on ice, samples received same day collected?

☐ Yes → Acceptable

☐ No →

Complete Non-Conformance Sheet

Custody seals intact on cooler/sample

☐ Yes ☐ No* ☒ N/A

Sample containers intact

☒ Yes ☐ No*

Sample labels match Chain of Custody IDs

☒ Yes ☐ No*

Total number of containers received match COC

☒ Yes ☐ No*

Proper containers received for analyses requested on COC

☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested

☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times

☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date:

SL 12-2-19

Comments:

APPENDIX D-3: SOIL GAS LABORATORY ANALYSIS REPORTS



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

06 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 11/21/19 16:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'Mike Jaroudi', written in a cursive style.

Mike Jaroudi
Project Manager

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB6N2-5	T194054-01	Air	11/21/19 09:29	11/21/19 16:35
SB6N2-15	T194054-02	Air	11/21/19 09:30	11/21/19 16:35
SB6N2-25	T194054-03	Air	11/21/19 09:47	11/21/19 16:35
SB6N1-5	T194054-04	Air	11/21/19 10:05	11/21/19 16:35
SB6N1-15	T194054-05	Air	11/21/19 10:29	11/21/19 16:35
SB6N1-21	T194054-06	Air	11/21/19 10:04	11/21/19 16:35
SB6S2-5	T194054-07	Air	11/21/19 10:46	11/21/19 16:35
SB6S2-15	T194054-08	Air	11/21/19 10:33	11/21/19 16:35
SB6S2-22	T194054-09	Air	11/21/19 10:49	11/21/19 16:35
SB6S1-5	T194054-10	Air	11/21/19 11:18	11/21/19 16:35
SB6S1-10	T194054-11	Air	11/21/19 11:06	11/21/19 16:35
SB6S1-17	T194054-12	Air	11/21/19 11:26	11/21/19 16:35
SB6W1-5	T194054-13	Air	11/21/19 11:54	11/21/19 16:35
SB6W1-15	T194054-14	Air	11/21/19 11:39	11/21/19 16:35
SB6W1-20	T194054-15	Air	11/21/19 11:46	11/21/19 16:35
SB6W2-5	T194054-16	Air	11/21/19 12:11	11/21/19 16:35
SB6W2-15	T194054-17	Air	11/21/19 12:23	11/21/19 16:35
SB6W2-22	T194054-18	Air	11/21/19 12:10	11/21/19 16:35
SB6E1-5	T194054-19	Air	11/21/19 12:46	11/21/19 16:35
SB6E1-12	T194054-20	Air	11/21/19 12:45	11/21/19 16:35
SB6E2-5	T194054-21	Air	11/21/19 13:06	11/21/19 16:35
SB6E2-13	T194054-22	Air	11/21/19 13:05	11/21/19 16:35

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
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DETECTIONS SUMMARY

Sample ID: SB6N2-5

Laboratory ID: T194054-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	67	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	22	13	ug/m ³ Air	TO-15	
Chloroform	10	5.0	ug/m ³ Air	TO-15	
Tetrachloroethene	580	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	2.2	5.7	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	15	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	5.4	42	ug/m ³ Air	TO-15	J
Toluene	34	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.6	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	4.9	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB6N2-15

Laboratory ID: T194054-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	55	12	ug/m ³ Air	TO-15	
Tetrachloroethene	110	6.9	ug/m ³ Air	TO-15	
Trichloroethene	3.8	5.5	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	7.8	5.0	ug/m ³ Air	TO-15	
Benzene	1.2	3.3	ug/m ³ Air	TO-15	J
Toluene	64	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.3	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	11	8.8	ug/m ³ Air	TO-15	
o-Xylene	4.6	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6N2-25

Laboratory ID: T194054-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	56	12	ug/m ³ Air	TO-15	
Tetrachloroethene	68	6.9	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
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Project Manager: David Horrell

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Sample ID: SB6N2-25

Laboratory ID: T194054-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Trichloroethene	150	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	10	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	2.4	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	5.9	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	9.3	15	ug/m ³ Air	TO-15	J
Toluene	77	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	5.7	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	25	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.9	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6N1-5

Laboratory ID: T194054-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	23	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	11	13	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.8	6.9	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	4.1	5.0	ug/m ³ Air	TO-15	J
Toluene	670	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.8	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	11	8.8	ug/m ³ Air	TO-15	
o-Xylene	3.5	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB6N1-15

Laboratory ID: T194054-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	22	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	11	13	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.3	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	18	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	3.9	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	12	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	8.3	15	ug/m ³ Air	TO-15	J
Toluene	52	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	4.6	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	21	8.8	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
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Project Manager: David Horrell

Reported:
12/06/19 14:57

Sample ID: SB6N1-15

Laboratory ID: T194054-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
o-Xylene	6.8	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6N1-21

Laboratory ID: T194054-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	330	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	11	13	ug/m ³ Air	TO-15	J
Tetrachloroethene	14	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	17	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	11	15	ug/m ³ Air	TO-15	J
Toluene	510	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.5	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	12	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.5	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6S2-5

Laboratory ID: T194054-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	62	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	280	13	ug/m ³ Air	TO-15	
Chloroform	12	5.0	ug/m ³ Air	TO-15	
Tetrachloroethene	240	6.9	ug/m ³ Air	TO-15	
Trichloroethene	8.6	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	14	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	4.0	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	12	5.0	ug/m ³ Air	TO-15	
Benzene	1.4	3.3	ug/m ³ Air	TO-15	J
Toluene	430	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.1	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	15	8.8	ug/m ³ Air	TO-15	
o-Xylene	5.8	4.4	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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Sample ID: SB6S2-15

Laboratory ID: T194054-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	52	12	ug/m ³ Air	TO-15	
Chloroform	15	5.0	ug/m ³ Air	TO-15	
Hexane	5.9	3.6	ug/m ³ Air	TO-15	
Styrene	0.83	4.3	ug/m ³ Air	TO-15	J
Tetrahydrofuran	0.44	3.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	11	6.9	ug/m ³ Air	TO-15	
Trichloroethene	9.3	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	26	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	10	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	26	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	22	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	7.2	42	ug/m ³ Air	TO-15	J
Toluene	420	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.7	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	19	8.8	ug/m ³ Air	TO-15	
o-Xylene	7.1	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6S2-22

Laboratory ID: T194054-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	52	12	ug/m ³ Air	TO-15	
Hexane	8.6	3.6	ug/m ³ Air	TO-15	
Tetrachloroethene	12	6.9	ug/m ³ Air	TO-15	
Trichloroethene	4.7	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	6.1	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	9.7	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	9.9	15	ug/m ³ Air	TO-15	J
Toluene	170	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.1	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	12	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.4	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6S1-5

Laboratory ID: T194054-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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Sample ID: SB6S1-5

Laboratory ID: T194054-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	32	12	ug/m ³ Air	TO-15	
Tetrachloroethene	5.8	6.9	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	4.8	5.0	ug/m ³ Air	TO-15	J
Toluene	140	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.5	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	9.3	8.8	ug/m ³ Air	TO-15	
o-Xylene	4.8	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6S1-10

Laboratory ID: T194054-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	83	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	98	13	ug/m ³ Air	TO-15	
Hexane	14	3.6	ug/m ³ Air	TO-15	
Tetrachloroethene	5.9	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	5.9	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	7.9	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	3.8	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	17	15	ug/m ³ Air	TO-15	
Toluene	160	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.8	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	8.8	8.8	ug/m ³ Air	TO-15	
o-Xylene	5.2	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6S1-17

Laboratory ID: T194054-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	92	12	ug/m ³ Air	TO-15	
Tetrachloroethene	11	6.9	ug/m ³ Air	TO-15	
Trichloroethene	18	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	14	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	4.9	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	24	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	4.7	42	ug/m ³ Air	TO-15	J
Benzene	1.8	3.3	ug/m ³ Air	TO-15	J

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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Sample ID: SB6S1-17

Laboratory ID: T194054-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Toluene	220	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.0	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	14	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.9	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6W1-5

Laboratory ID: T194054-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	39	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	87	13	ug/m ³ Air	TO-15	
Tetrachloroethene	10	6.9	ug/m ³ Air	TO-15	
Trichloroethene	18	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	6.8	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	13	5.0	ug/m ³ Air	TO-15	
Toluene	51	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.9	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	10	8.8	ug/m ³ Air	TO-15	
o-Xylene	4.7	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6W1-15

Laboratory ID: T194054-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	62	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	13	13	ug/m ³ Air	TO-15	
Tetrachloroethene	18	6.9	ug/m ³ Air	TO-15	
Trichloroethene	5.9	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	19	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	27	15	ug/m ³ Air	TO-15	
Toluene	230	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.7	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	6.9	8.8	ug/m ³ Air	TO-15	J
o-Xylene	3.0	4.4	ug/m ³ Air	TO-15	J

Partner Engineering and Science-Santa Ana
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Sample ID: SB6W1-20

Laboratory ID: T194054-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	82	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	40	13	ug/m ³ Air	TO-15	
Hexane	7.9	3.6	ug/m ³ Air	TO-15	
Tetrachloroethene	49	6.9	ug/m ³ Air	TO-15	
Trichloroethene	15	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	12	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	4.0	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	20	5.0	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	2.7	42	ug/m ³ Air	TO-15	J
Toluene	520	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.8	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	14	8.8	ug/m ³ Air	TO-15	
o-Xylene	4.3	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB6W2-5

Laboratory ID: T194054-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	64	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	8.7	13	ug/m ³ Air	TO-15	J
cis-1,2-Dichloroethene	3.2	4.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	78	6.9	ug/m ³ Air	TO-15	
Trichloroethene	17	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	11	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	7.9	5.0	ug/m ³ Air	TO-15	
Benzene	1.3	3.3	ug/m ³ Air	TO-15	J
Toluene	150	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.3	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	15	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.0	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6W2-15

Laboratory ID: T194054-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	56	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	38	13	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
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Sample ID: SB6W2-15

Laboratory ID: T194054-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloroform	2.7	5.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.5	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	7.6	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	12	5.0	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	2.0	42	ug/m ³ Air	TO-15	J
Toluene	380	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.9	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	15	8.8	ug/m ³ Air	TO-15	
o-Xylene	7.0	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6W2-22

Laboratory ID: T194054-18

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	77	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	7.1	13	ug/m ³ Air	TO-15	J
Chloroform	23	5.0	ug/m ³ Air	TO-15	
Tetrachloroethene	6.2	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	26	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	22	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	21	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	2.6	42	ug/m ³ Air	TO-15	J
Toluene	760	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.5	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	17	8.8	ug/m ³ Air	TO-15	
o-Xylene	8.0	4.4	ug/m ³ Air	TO-15	

Sample ID: SB6E1-5

Laboratory ID: T194054-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	25	12	ug/m ³ Air	TO-15	
Tetrachloroethene	15	6.9	ug/m ³ Air	TO-15	
Trichloroethene	16	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	2.4	5.0	ug/m ³ Air	TO-15	J
Toluene	220	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.8	4.4	ug/m ³ Air	TO-15	J

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
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Sample ID: SB6E1-5

Laboratory ID: T194054-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
m,p-Xylene	8.7	8.8	ug/m ³ Air	TO-15	J
o-Xylene	3.7	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB6E1-12

Laboratory ID: T194054-20

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	47	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	34	13	ug/m ³ Air	TO-15	
Tetrachloroethene	89	6.9	ug/m ³ Air	TO-15	
Trichloroethene	5.7	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	21	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	12	15	ug/m ³ Air	TO-15	J
Benzene	1.3	3.3	ug/m ³ Air	TO-15	J
Toluene	41	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.5	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	5.8	8.8	ug/m ³ Air	TO-15	J
o-Xylene	2.6	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB6E2-5

Laboratory ID: T194054-21

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Isopropyl alcohol	19	13	ug/m ³ Air	TO-15	
Tetrachloroethene	14	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	36	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	6.1	5.0	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	2.0	42	ug/m ³ Air	TO-15	J
Benzene	1.8	3.3	ug/m ³ Air	TO-15	J
Toluene	390	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.9	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	14	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.5	4.4	ug/m ³ Air	TO-15	

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Sample ID: SB6E2-13

Laboratory ID: T194054-22

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Isopropyl alcohol	14	13	ug/m ³ Air	TO-15	
Hexane	7.6	3.6	ug/m ³ Air	TO-15	
Tetrachloroethene	7.2	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	58	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	21	15	ug/m ³ Air	TO-15	
Benzene	2.3	3.3	ug/m ³ Air	TO-15	J
Toluene	92	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.2	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	7.9	8.8	ug/m ³ Air	TO-15	J
o-Xylene	3.1	4.4	ug/m ³ Air	TO-15	J

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Project Number: SM19-259094
Project Manager: David Horrell

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SB6N2-5
T194054-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.6	9112316	11/23/19	12/05/19	TO-15
Acetone	67	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	22	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	10	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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SB6N2-5
T194054-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.6	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	580	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	2.2	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	15	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	5.4	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	34	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.6	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	4.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

101 %

40-160

"

"

"

"

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N2-15
T194054-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.61	9112316	11/23/19	12/05/19	TO-15
Acetone	55	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N2-15
T194054-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.61	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	110	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	3.8	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.8	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	1.2	0.14	3.3	"	"	"	"	"	"	J
Toluene	64	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.3	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	11	0.20	8.8	"	"	"	"	"	"	
o-Xylene	4.6	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 99.2 % 40-160 " " " "

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N2-25
T194054-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.59	9112316	11/23/19	12/05/19	TO-15
Acetone	56	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
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SB6N2-25
T194054-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.59	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	68	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	150	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	10	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.4	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	5.9	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	9.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	77	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	5.7	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	25	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.9	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			98.2 %	40-160		"	"	"	"	

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N1-5
T194054-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.59	9112316	11/23/19	12/05/19	TO-15	
Acetone	23	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	11	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N1-5
T194054-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.59	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.8	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.1	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	670	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.8	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	11	0.20	8.8	"	"	"	"	"	"	
o-Xylene	3.5	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 99.7 % 40-160 " " " "

SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N1-15
T194054-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.63	9112316	11/23/19	12/05/19	TO-15	
Acetone	22	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	11	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N1-15
T194054-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.63	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.3	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	18	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.9	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	12	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	8.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	52	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	4.6	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	21	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.8	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 97.0 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N1-21
T194054-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.6	9112316	11/23/19	12/05/19	TO-15	
Acetone	330	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	11	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6N1-21
T194054-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.6	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	14	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	17	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	11	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	510	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.5	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	12	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.5	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

93.0 %

40-160

"

"

"

"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S2-5
T194054-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.55	9112316	11/23/19	12/05/19	TO-15
Acetone	62	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	280	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	12	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S2-5
T194054-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.55	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	240	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	8.6	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	14	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.0	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	12	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	1.4	0.14	3.3	"	"	"	"	"	"	J
Toluene	430	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.1	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	15	0.20	8.8	"	"	"	"	"	"	
o-Xylene	5.8	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 98.5 % 40-160 " " " "

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S2-15
T194054-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.47	9112316	11/23/19	12/05/19	TO-15
Acetone	52	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	15	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	5.9	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S2-15
T194054-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.47	9112316	11/23/19	12/05/19	TO-15	
Styrene	0.83	0.19	4.3	"	"	"	"	"	"	J
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	0.44	0.25	3.0	"	"	"	"	"	"	J
Tetrachloroethene	11	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	9.3	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	26	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	10	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	26	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	22	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	7.2	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	420	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.7	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	19	0.20	8.8	"	"	"	"	"	"	
o-Xylene	7.1	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

99.4 %

40-160

"

"

"

"



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S2-22
T194054-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.47	9112316	11/23/19	12/05/19	TO-15
Acetone	52	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	8.6	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S2-22
T194054-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.47	9112316	11/23/19	12/05/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	12	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	4.7	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	6.1	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	9.7	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	9.9	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	170	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.1	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	12	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.4	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 97.4 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S1-5
T194054-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9112316	11/23/19	12/06/19	TO-15
Acetone	32	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S1-5
T194054-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.52	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.8	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.8	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	140	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.5	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	9.3	0.20	8.8	"	"	"	"	"	"	
o-Xylene	4.8	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

96.4 %

40-160

"

"

"

"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S1-10
T194054-11(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.59	9112316	11/23/19	12/06/19	TO-15	
Acetone	83	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	98	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	14	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S1-10
T194054-11(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.59	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.9	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	5.9	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	7.9	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.8	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	17	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	160	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.8	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	8.8	0.20	8.8	"	"	"	"	"	"	
o-Xylene	5.2	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 97.4 % 40-160 " " " "

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S1-17
T194054-12(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m³ Air	1.55	9112316	11/23/19	12/06/19	TO-15
Acetone	92	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6S1-17
T194054-12(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.55	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	11	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	18	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	14	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.9	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	24	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	4.7	0.14	42	"	"	"	"	"	"	J
Benzene	1.8	0.14	3.3	"	"	"	"	"	"	J
Toluene	220	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.0	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	14	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.9	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			99.7 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W1-5
T194054-13(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9112316	11/23/19	12/06/19	TO-15	
Acetone	39	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	87	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W1-5
T194054-13(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.52	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	10	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	18	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	6.8	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	13	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	51	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.9	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	10	0.20	8.8	"	"	"	"	"	"	
o-Xylene	4.7	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

97.6 %

40-160

"

"

"

"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W1-15
T194054-14(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9112316	11/23/19	12/06/19	TO-15	
Acetone	62	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	13	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W1-15
T194054-14(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.52	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	18	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	5.9	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	19	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	27	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	230	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.7	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	6.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	3.0	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 99.8 % 40-160 " " " "

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W1-20
T194054-15(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.53	9112316	11/23/19	12/06/19	TO-15	
Acetone	82	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	40	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	7.9	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W1-20
T194054-15(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.53	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	49	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	15	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	12	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.0	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	20	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	2.7	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	520	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.8	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	14	0.20	8.8	"	"	"	"	"	"	
o-Xylene	4.3	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 99.4 % 40-160 " " " "

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W2-5
T194054-16(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.5	9112316	11/23/19	12/06/19	TO-15	
Acetone	64	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	8.7	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	3.2	0.25	4.0	"	"	"	"	"	"	J
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W2-5
T194054-16(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.5	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	78	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	17	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	11	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.9	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	1.3	0.14	3.3	"	"	"	"	"	"	J
Toluene	150	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.3	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	15	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.0	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 100 % 40-160 " " " "

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W2-15
T194054-17(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.53	9112316	11/23/19	12/06/19	TO-15	
Acetone	56	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	38	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	2.7	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W2-15
T194054-17(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.53	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.5	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	7.6	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	12	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	2.0	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	380	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.9	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	15	0.20	8.8	"	"	"	"	"	"	
o-Xylene	7.0	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 94.8 % 40-160 " " " "

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W2-22
T194054-18(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.67	9112316	11/23/19	12/06/19	TO-15	
Acetone	77	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	7.1	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	23	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6W2-22
T194054-18(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.67	9112316	11/23/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	6.2	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	26	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	22	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	21	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	2.6	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	760	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.5	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	17	0.20	8.8	"	"	"	"	"	"	
o-Xylene	8.0	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 94.7 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E1-5
T194054-19(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.51	9112539	11/25/19	11/27/19	TO-15
Acetone	25	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E1-5
T194054-19(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.51	9112539	11/25/19	11/27/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	15	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	16	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.4	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	220	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.8	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	8.7	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	3.7	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

101 %

40-160

"

"

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"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E1-12
T194054-20(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.57	9112539	11/25/19	11/27/19	TO-15
Acetone	47	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	34	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E1-12
T194054-20(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.57	9112539	11/25/19	11/27/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	89	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	5.7	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	21	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	12	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	1.3	0.14	3.3	"	"	"	"	"	"	J
Toluene	41	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.5	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	5.8	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	2.6	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 106 % 40-160 " " " "

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E2-5
T194054-21(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.55	9112539	11/25/19	11/27/19	TO-15
Acetone	ND	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	19	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E2-5
T194054-21(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.55	9112539	11/25/19	11/27/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	14	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	36	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	6.1	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	2.0	0.14	42	"	"	"	"	"	"	J
Benzene	1.8	0.14	3.3	"	"	"	"	"	"	J
Toluene	390	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.9	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	14	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.5	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 103 % 40-160 " " " "

SunStar Laboratories, Inc.

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E2-13
T194054-22(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.54	9112539	11/25/19	12/02/19	TO-15
Acetone	ND	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	14	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	7.6	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

SB6E2-13
T194054-22(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.54	9112539	11/25/19	12/02/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	7.2	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	58	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	21	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	2.3	0.14	3.3	"	"	"	"	"	"	J
Toluene	92	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.2	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	7.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	3.1	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

104 %

40-160

"

"

"

"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112316 - Canister Analysis

Blank (9112316-BLK1)

Prepared: 11/23/19 Analyzed: 11/27/19

<i>Surrogate: 4-Bromofluorobenzene</i>	362			ug/m ³ Air	362		100	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

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Project: Whittram Fontana
Project Number: SM19-259094
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Reported:
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TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112316 - Canister Analysis

Blank (9112316-BLK1)

Prepared: 11/23/19 Analyzed: 11/27/19

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air
trans-1,2-Dichloroethene	ND	0.22	4.0	"
1,2-Dichloropropane	ND	0.13	4.7	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"
4-Ethyltoluene	ND	0.25	5.0	"
Methylene chloride	ND	0.079	18	"
Styrene	ND	0.19	4.3	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"
Tetrahydrofuran	ND	0.25	3.0	"
Tetrachloroethene	ND	0.21	6.9	"
1,1,2-Trichloroethane	ND	0.19	5.6	"
1,1,1-Trichloroethane	ND	0.24	5.6	"
Trichloroethene	ND	0.21	5.5	"
Trichlorofluoromethane	ND	0.24	5.7	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"
Vinyl acetate	ND	0.18	3.6	"
Vinyl chloride	ND	0.052	2.6	"
1,4-Dioxane	ND	0.97	18	"
2-Butanone (MEK)	ND	0.45	15	"
Methyl isobutyl ketone	ND	0.14	42	"
Benzene	ND	0.14	3.3	"
Toluene	ND	0.14	3.8	"
Ethylbenzene	ND	0.14	4.4	"
m,p-Xylene	ND	0.20	8.8	"
o-Xylene	ND	0.085	4.4	"

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112316 - Canister Analysis

Duplicate (9112316-DUP1)

Source: T194037-03

Prepared: 11/23/19 Analyzed: 11/27/19

<i>Surrogate: 4-Bromofluorobenzene</i>	358			ug/m ³ Air	362		98.8	40-160			
Acetone	279	0.49	12	"		283			1.33	30	
1,3-Butadiene	ND	0.29	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	18.2	0.55	13	"		20.9			13.7	30	
Bromodichloromethane	ND	0.16	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.55	20	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.098	4.7	"		ND				30	
Chloroethane	ND	0.35	2.7	"		ND				30	
Chloroform	2.28	0.15	5.0	"		2.20			3.77	30	J
Chloromethane	ND	0.46	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	5.12	0.43	3.6	"		5.12			0.00	30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	31	"		ND				30	
1,3-Dichlorobenzene	ND	0.43	31	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	31	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112316 - Canister Analysis

Duplicate (9112316-DUP1)		Source: T194037-03			Prepared: 11/23/19 Analyzed: 11/27/19						
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air	ND					30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	ND					30	
1,2-Dichloropropane	ND	0.13	4.7	"	ND					30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	ND					30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	ND					30	
4-Ethyltoluene	ND	0.25	5.0	"	ND					30	
Methylene chloride	ND	0.079	18	"	ND					30	
Styrene	ND	0.19	4.3	"	ND					30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	ND					30	
Tetrahydrofuran	7.28	0.25	3.0	"	7.90				8.05	30	
Tetrachloroethene	ND	0.21	6.9	"	ND					30	
1,1,2-Trichloroethane	ND	0.19	5.6	"	ND					30	
1,1,1-Trichloroethane	2.08	0.24	5.6	"	2.27				8.70	30	J
Trichloroethene	1.86	0.21	5.5	"	1.86				0.00	30	J
Trichlorofluoromethane	ND	0.24	5.7	"	ND					30	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	ND					30	
1,2,4-Trimethylbenzene	2.47	0.33	5.0	"	2.64				6.67	30	J
Vinyl acetate	ND	0.18	3.6	"	ND					30	
Vinyl chloride	ND	0.052	2.6	"	ND					30	
1,4-Dioxane	7.72	0.97	18	"	8.09				4.72	30	J
2-Butanone (MEK)	23.0	0.45	15	"	23.6				2.62	30	
Methyl isobutyl ketone	7.92	0.14	42	"	8.14				2.64	30	J
Benzene	ND	0.14	3.3	"	ND					30	
Toluene	2.54	0.14	3.8	"	2.54				0.00	30	J
Ethylbenzene	ND	0.14	4.4	"	ND					30	
m,p-Xylene	2.85	0.20	8.8	"	3.00				5.13	30	J
o-Xylene	ND	0.085	4.4	"	ND					30	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112539 - Canister Analysis

Blank (9112539-BLK1)

Prepared: 11/25/19 Analyzed: 12/04/19

<i>Surrogate: 4-Bromofluorobenzene</i>	281			ug/m ³ Air	362		77.7	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112539 - Canister Analysis

Blank (9112539-BLK1)

Prepared: 11/25/19 Analyzed: 12/04/19

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air
trans-1,2-Dichloroethene	ND	0.22	4.0	"
1,2-Dichloropropane	ND	0.13	4.7	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"
4-Ethyltoluene	ND	0.25	5.0	"
Methylene chloride	ND	0.079	18	"
Styrene	ND	0.19	4.3	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"
Tetrahydrofuran	ND	0.25	3.0	"
Tetrachloroethene	ND	0.21	6.9	"
1,1,2-Trichloroethane	ND	0.19	5.6	"
1,1,1-Trichloroethane	ND	0.24	5.6	"
Trichloroethene	ND	0.21	5.5	"
Trichlorofluoromethane	ND	0.24	5.7	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"
Vinyl acetate	ND	0.18	3.6	"
Vinyl chloride	ND	0.052	2.6	"
1,4-Dioxane	ND	0.97	18	"
2-Butanone (MEK)	ND	0.45	15	"
Methyl isobutyl ketone	ND	0.14	42	"
Benzene	ND	0.14	3.3	"
Toluene	ND	0.14	3.8	"
Ethylbenzene	ND	0.14	4.4	"
m,p-Xylene	ND	0.20	8.8	"
o-Xylene	ND	0.085	4.4	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112539 - Canister Analysis

Duplicate (9112539-DUP1)

Source: T194053-30

Prepared: 11/25/19 Analyzed: 12/04/19

<i>Surrogate: 4-Bromofluorobenzene</i>	<i>380</i>			<i>ug/m³ Air</i>	<i>362</i>		<i>105</i>	<i>40-160</i>			
Acetone	331	0.49	12	"		318			4.15	30	
1,3-Butadiene	ND	0.29	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	49.7	0.55	13	"		47.0			5.67	30	
Bromodichloromethane	ND	0.16	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.55	20	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.098	4.7	"		ND				30	
Chloroethane	ND	0.35	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	4.19	0.46	11	"		4.26			1.65	30	J
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	3.32	0.15	4.2	"		3.18			4.26	30	J
Hexane	ND	0.43	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	31	"		ND				30	
1,3-Dichlorobenzene	ND	0.43	31	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	31	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112539 - Canister Analysis

Duplicate (9112539-DUP1)		Source: T194053-30			Prepared: 11/25/19 Analyzed: 12/04/19						
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air		ND				30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"		ND				30	
1,2-Dichloropropane	ND	0.13	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"		ND				30	
4-Ethyltoluene	ND	0.25	5.0	"		ND				30	
Methylene chloride	ND	0.079	18	"		ND				30	
Styrene	ND	0.19	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"		ND				30	
Tetrahydrofuran	7.06	0.25	3.0	"		6.37			10.4	30	
Tetrachloroethene	21.8	0.21	6.9	"		21.9			0.525	30	
1,1,2-Trichloroethane	ND	0.19	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	0.24	5.6	"		ND				30	
Trichloroethene	ND	0.21	5.5	"		ND				30	
Trichlorofluoromethane	ND	0.24	5.7	"		ND				30	
1,3,5-Trimethylbenzene	3.74	0.49	5.0	"		3.57			4.55	30	J
1,2,4-Trimethylbenzene	13.0	0.33	5.0	"		11.5			12.9	30	
Vinyl acetate	ND	0.18	3.6	"		ND				30	
Vinyl chloride	ND	0.052	2.6	"		ND				30	
1,4-Dioxane	ND	0.97	18	"		ND				30	
2-Butanone (MEK)	28.3	0.45	15	"		27.7			2.14	30	
Methyl isobutyl ketone	15.9	0.14	42	"		14.7			7.67	30	J
Benzene	3.56	0.14	3.3	"		3.24			9.52	30	
Toluene	14.2	0.14	3.8	"		14.3			0.447	30	
Ethylbenzene	3.59	0.14	4.4	"		3.59			0.00	30	J
m,p-Xylene	19.4	0.20	8.8	"		17.3			11.6	30	
o-Xylene	6.89	0.085	4.4	"		6.75			2.15	30	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/06/19 14:57

Notes and Definitions

J Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

AIR LABORATORY

Chain of Custody Record



**SunStar
Laboratories**

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/21/19 Page: 1 Of 2
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: T194054 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Summa Can # / Comments
01	SB6 N2-5'	11/21/19	0929	0936	Soil Gas	1L Summa	-30	-2			X				0006
02	SB6 N2-15'		0930	0937			-26	-1			X				0031
03	SB6 N2-25'		0947	0954			-29	-2			X				0039
04	SB6 N1-5'		1005	1011			-29	-2			X				0047
05	SB6 N1-15'		1029	1035			-28	-2			X				0049
06	SB6 N1-21'		1004	1010			-28	-2			X				0050
07	SB6 S2-5'		1046	1055			-30	-2			X				0054
08	SB6 S2-15'		1033	1040			-28	-2			X				0083
09	SB6 S2-22'		1049	1100			-29	-2			X				0089
10	SB6 S1-5'		1118	1127			-30	-2			X				0092
11	SB6 S1-10'		1106	1117			-28	-2			X				0108
12	SB6 S1-17'		1126	1134			-26	-1			X				0230
13	SB6 W1-5'		1154	1201			-30	-2			X				0237
14	SB6 W1-15'		1139	1146			-30	-2			X				0249
15	SB6 W1-20'	↓	1146	1155	↓	↓	-28	-2			X				0263

Relinquished by: (signature) David Horrell Date / Time 11/21/19 1635

Relinquished by: (signature) _____ Date / Time _____

Relinquished by: (signature) _____ Date / Time _____

Received by: (signature) [Signature] Date / Time 11-21-19 1635

Received by: (signature) _____ Date / Time _____

Received by: (signature) _____ Date / Time _____

Total # of containers 15

Chain of Custody seals Y/N NA

Seals intact? Y/N NA

Received good condition/cold _____

Turn around time: Std.

Notes

Can # 0160 was at -15" Hg so it was not used

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

COCAL 180446

Chain of Custody Record



SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

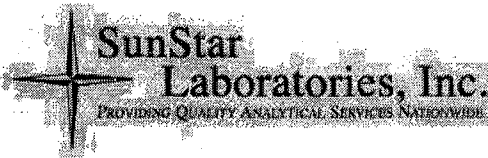
Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/21/19 Page: 2 Of 2
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: T194054 EDF #: _____

[illegible]

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

COCAL 180447



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 194054

Client Name: PARTNER - TOR Project: WHITRAM FONTANA

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 11-21-19 / 16:35

Total number of coolers received: 0 Thermometer ID: _____ Calibration Due: 6/27/20

Temperature: Cooler #1	— °C +/- the CF (+ 1.2°C) = —	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 1.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 1.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☐ Yes ☐ No* ☒ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-21-19

Comments: _____



Project Name: SM19-259094				Rebecca	
Company: PARTNER ESI					
Name: DAVID HORRELL					
Item	Quantity	Unit			
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 120/CS					
1 Liter Poly 36/CS					
500 ml Poly 60/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box					
(1) Methanol VOA 72/box					
(1)Syringe 50/pack					
Lock-N-Load Handle 1/ea					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
Volume of Summa	# Sent	Used ~	Unused	Unreturned	
Batch Certified Summa Canisters	400cc				
	1L	81	CHARGE - 22		59
	3L				
	6L				
Purge cans					
Nitrogen cans		16			16
Ind. Certified Summa Cannisters	1L				
	3L				
	6L				
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					PB
Manifolds: Inst. Sampler, Variable Sampler		25-MANIFOLDS (150)			
Swagelok Fittings: Nuts/Ferrules, Ts					
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves, Silicon Tape, etc.		81-SHUT IN TEST SETUPS		CHARGE - 22	
Prepared By: SL		Date: 11-19-19			
Reviewed By:		Date:			
Comments:					

Asset Check-In Receipt

SunStar Laboratories Inc.

T194054

Check-In Date: 11/21/2019

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0006	1000cc: 1000cc Summa	0006	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0031	1000cc: 1000cc Summa	0031	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0039	1000cc: 1000cc Summa	0039	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0047	1000cc: 1000cc Summa	0047	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0049	1000cc: 1000cc Summa	0049	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0050	1000cc: 1000cc Summa	0050	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0054	1000cc: 1000cc Summa	0054	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0083	1000cc: 1000cc Summa	0083	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0089	1000cc: 1000cc Summa	0089	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0092	1000cc: 1000cc Summa	0092	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0108	1000cc: 1000cc Summa	0108	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0160 - unused	1000cc: 1000cc Summa	0160	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0230	1000cc: 1000cc Summa	0230	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0237	1000cc: 1000cc Summa	0237	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0249	1000cc: 1000cc Summa	0249	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0263	1000cc: 1000cc Summa	0263	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0270	1000cc: 1000cc Summa	0270	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0281	1000cc: 1000cc Summa	0281	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0282	1000cc: 1000cc Summa	0282	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0287	1000cc: 1000cc Summa	0287	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0295	1000cc: 1000cc Summa	0295	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0299	1000cc: 1000cc Summa	0299	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell

Asset Check-In Receipt

T194054

SunStar Laboratories Inc.

Check-In Date: 11/21/2019

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0300	1000cc: 1000cc Summa	0300	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell

--

WORK ORDER

T194054

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/02/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/21/19 16:35

Logged In By: Sunny Lounethone

Date Logged In: 11/21/19 18:37

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T194054-01 SB6N2-5 [Air] Sampled 11/21/19 09:29 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 09:29	MDL; +1,1 DFA
T194054-02 SB6N2-15 [Air] Sampled 11/21/19 09:30 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 09:30	MDL; +1,1 DFA
T194054-03 SB6N2-25 [Air] Sampled 11/21/19 09:47 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 09:47	MDL; +1,1 DFA
T194054-04 SB6N1-5 [Air] Sampled 11/21/19 10:05 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 10:05	MDL; +1,1 DFA
T194054-05 SB6N1-15 [Air] Sampled 11/21/19 10:29 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 10:29	MDL; +1,1 DFA
T194054-06 SB6N1-21 [Air] Sampled 11/21/19 10:04 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 10:04	MDL; +1,1 DFA
T194054-07 SB6S2-5 [Air] Sampled 11/21/19 10:46 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 10:46	MDL; +1,1 DFA

WORK ORDER

T194054

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194054-08 SB6S2-15 [Air] Sampled 11/21/19 10:33 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 10:33	MDL; +1,1 DFA
T194054-09 SB6S2-22 [Air] Sampled 11/21/19 10:49 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 10:49	MDL; +1,1 DFA
T194054-10 SB6S1-5 [Air] Sampled 11/21/19 11:18 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 11:18	MDL; +1,1 DFA
T194054-11 SB6S1-10 [Air] Sampled 11/21/19 11:06 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 11:06	MDL; +1,1 DFA
T194054-12 SB6S1-17 [Air] Sampled 11/21/19 11:26 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 11:26	MDL; +1,1 DFA
T194054-13 SB6W1-5 [Air] Sampled 11/21/19 11:54 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 11:54	MDL; +1,1 DFA
T194054-14 SB6W1-15 [Air] Sampled 11/21/19 11:39 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 11:39	MDL; +1,1 DFA
T194054-15 SB6W1-20 [Air] Sampled 11/21/19 11:46 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 11:46	MDL; +1,1 DFA
T194054-16 SB6W2-5 [Air] Sampled 11/21/19 12:11 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 12:11	MDL; +1,1 DFA
T194054-17 SB6W2-15 [Air] Sampled 11/21/19 12:23 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 12:23	MDL; +1,1 DFA
T194054-18 SB6W2-22 [Air] Sampled 11/21/19 12:10 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 12:10	MDL; +1,1 DFA

WORK ORDER

T194054

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194054-19 SB6E1-5 [Air] Sampled 11/21/19 12:46 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 12:46	MDL; +1,1 DFA
T194054-20 SB6E1-12 [Air] Sampled 11/21/19 12:45 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 12:45	MDL; +1,1 DFA
T194054-21 SB6E2-5 [Air] Sampled 11/21/19 13:06 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 13:06	MDL; +1,1 DFA
T194054-22 SB6E2-13 [Air] Sampled 11/21/19 13:05 (GMT-08:00) Pacific Time (US &				
TO-15	12/02/19 15:00	5	12/21/19 13:05	MDL; +1,1 DFA

--



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 11/26/19 18:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'Mike Jaroudi', written in a cursive style.

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8S1-5	T194108-01	Air	11/26/19 10:29	11/26/19 18:05
SB8S1-15	T194108-02	Air	11/26/19 10:14	11/26/19 18:05
SB8S1-25	T194108-03	Air	11/26/19 10:15	11/26/19 18:05
SB8S2-5	T194108-04	Air	11/26/19 10:45	11/26/19 18:05
SB8S2-15	T194108-05	Air	11/26/19 10:45	11/26/19 18:05
SB8S2-25	T194108-06	Air	11/26/19 11:00	11/26/19 18:05
SB8N1-5	T194108-07	Air	11/26/19 11:17	11/26/19 18:05
SB8N1-15	T194108-08	Air	11/26/19 11:07	11/26/19 18:05
SB8N1-25	T194108-09	Air	11/26/19 11:29	11/26/19 18:05
SB8N2-5	T194108-10	Air	11/26/19 11:46	11/26/19 18:05
SB8N2-15	T194108-11	Air	11/26/19 11:31	11/26/19 18:05
SB8N2-25	T194108-12	Air	11/26/19 11:47	11/26/19 18:05
SB8E1-5	T194108-13	Air	11/26/19 12:07	11/26/19 18:05
SB8E1-15	T194108-14	Air	11/26/19 12:24	11/26/19 18:05
SB8E1-25	T194108-15	Air	11/26/19 12:08	11/26/19 18:05
SB8E2-5	T194108-16	Air	11/26/19 12:38	11/26/19 18:05
SB8E2-15	T194108-17	Air	11/26/19 12:25	11/26/19 18:05
SB8E2-25	T194108-18	Air	11/26/19 12:47	11/26/19 18:05
SB8W1-5	T194108-19	Air	11/26/19 13:11	11/26/19 18:05
SB8W1-25	T194108-20	Air	11/26/19 13:02	11/26/19 18:05
SB8W1-15	T194108-21	Air	11/26/19 12:54	11/26/19 18:05
SB8W2-5	T194108-22	Air	11/26/19 13:31	11/26/19 18:05
SB8W2-15	T194108-23	Air	11/26/19 13:18	11/26/19 18:05
SB8W2-25	T194108-24	Air	11/26/19 13:25	11/26/19 18:05
SB15S1-3	T194108-25	Air	11/26/19 15:27	11/26/19 18:05
SB15S2-5	T194108-26	Air	11/26/19 15:35	11/26/19 18:05
SB15W1-4	T194108-27	Air	11/26/19 15:42	11/26/19 18:05
SB15E2-5	T194108-28	Air	11/26/19 15:59	11/26/19 18:05
SB15E2-15	T194108-29	Air	11/26/19 15:52	11/26/19 18:05

SunStar Laboratories, Inc.

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.



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB15E2-20	T194108-30	Air	11/26/19 16:10	11/26/19 18:05

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

DETECTIONS SUMMARY

Sample ID: SB8S1-5

Laboratory ID: T194108-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	22	12	ug/m ³ Air	TO-15	
Chloroform	14	5.0	ug/m ³ Air	TO-15	
Tetrachloroethene	200	6.9	ug/m ³ Air	TO-15	
Trichloroethene	28	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	8.3	5.0	ug/m ³ Air	TO-15	
Toluene	70	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	5.5	8.8	ug/m ³ Air	TO-15	J
o-Xylene	4.6	4.4	ug/m ³ Air	TO-15	

Sample ID: SB8S1-15

Laboratory ID: T194108-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	35	12	ug/m ³ Air	TO-15	
Styrene	2.1	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	12	6.9	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	17	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	76	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	17	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	3.1	42	ug/m ³ Air	TO-15	J
Benzene	1.5	3.3	ug/m ³ Air	TO-15	J
Toluene	32	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	8.8	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	45	8.8	ug/m ³ Air	TO-15	
o-Xylene	20	4.4	ug/m ³ Air	TO-15	

Sample ID: SB8S1-25

Laboratory ID: T194108-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	40	12	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

Sample ID: SB8S1-25

Laboratory ID: T194108-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Isopropyl alcohol	24	13	ug/m ³ Air	TO-15	
Tetrachloroethene	6.1	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	8.3	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	4.1	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	12	15	ug/m ³ Air	TO-15	J
Toluene	66	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	3.0	8.8	ug/m ³ Air	TO-15	J
o-Xylene	1.9	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB8S2-5

Laboratory ID: T194108-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4-Ethyltoluene	470	250	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	440	250	ug/m ³ Air	TO-15	
Toluene	250	190	ug/m ³ Air	TO-15	
Ethylbenzene	240	220	ug/m ³ Air	TO-15	
m,p-Xylene	1500	220	ug/m ³ Air	TO-15	
o-Xylene	460	220	ug/m ³ Air	TO-15	

Sample ID: SB8S2-15

Laboratory ID: T194108-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4-Ethyltoluene	390	250	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	130	250	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	410	250	ug/m ³ Air	TO-15	
Toluene	230	190	ug/m ³ Air	TO-15	
Ethylbenzene	140	220	ug/m ³ Air	TO-15	J
m,p-Xylene	910	220	ug/m ³ Air	TO-15	
o-Xylene	280	220	ug/m ³ Air	TO-15	

Sample ID: SB8S2-25

Laboratory ID: T194108-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	20	12	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

Sample ID: SB8S2-25

Laboratory ID: T194108-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	23	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	12	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	63	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	190	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	5.9	15	ug/m ³ Air	TO-15	J
Benzene	0.76	3.3	ug/m ³ Air	TO-15	J
Toluene	150	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	44	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	210	8.8	ug/m ³ Air	TO-15	
o-Xylene	91	4.4	ug/m ³ Air	TO-15	

Sample ID: SB8N1-5

Laboratory ID: T194108-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	30	12	ug/m ³ Air	TO-15	
Tetrachloroethene	35	6.9	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	2.9	5.0	ug/m ³ Air	TO-15	J
Toluene	4.5	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	1.6	8.8	ug/m ³ Air	TO-15	J
o-Xylene	0.19	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB8N1-15

Laboratory ID: T194108-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	26	12	ug/m ³ Air	TO-15	
Carbon Disulfide	16	3.2	ug/m ³ Air	TO-15	
Tetrachloroethene	5.9	6.9	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	11	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	8.7	15	ug/m ³ Air	TO-15	J
Toluene	50	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.3	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	8.6	8.8	ug/m ³ Air	TO-15	J
o-Xylene	4.1	4.4	ug/m ³ Air	TO-15	J

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Sample ID: SB8N1-25

Laboratory ID: T194108-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	18	12	ug/m ³ Air	TO-15	
Tetrachloroethene	47	6.9	ug/m ³ Air	TO-15	
Trichloroethene	4.0	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	17	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	9.3	15	ug/m ³ Air	TO-15	J
Toluene	40	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	2.7	8.8	ug/m ³ Air	TO-15	J
o-Xylene	1.5	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB8N2-5

Laboratory ID: T194108-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	22	12	ug/m ³ Air	TO-15	
Tetrachloroethene	44	6.9	ug/m ³ Air	TO-15	
Trichloroethene	7.4	5.5	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	9.7	5.0	ug/m ³ Air	TO-15	
Toluene	3.8	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	4.5	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB8N2-15

Laboratory ID: T194108-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	16	12	ug/m ³ Air	TO-15	
Tetrachloroethene	28	6.9	ug/m ³ Air	TO-15	
Trichloroethene	1.7	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	11	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	11	15	ug/m ³ Air	TO-15	J
Toluene	37	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.8	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	5.0	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB8N2-25

Laboratory ID: T194108-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			

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Sample ID: SB8N2-25

Laboratory ID: T194108-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	18	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	17	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	4.2	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	6.3	15	ug/m ³ Air	TO-15	J
Toluene	6.9	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	2.8	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB8E1-5

Laboratory ID: T194108-13

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	790	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	14	13	ug/m ³ Air	TO-15	
Hexane	6.1	3.6	ug/m ³ Air	TO-15	
Tetrachloroethene	20	6.9	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	8.9	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	35	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	23	15	ug/m ³ Air	TO-15	
Toluene	330	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	16	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	71	8.8	ug/m ³ Air	TO-15	
o-Xylene	33	4.4	ug/m ³ Air	TO-15	

Sample ID: SB8E1-15

Laboratory ID: T194108-14

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	37	12	ug/m ³ Air	TO-15	
Tetrachloroethene	12	6.9	ug/m ³ Air	TO-15	
Trichloroethene	1.6	5.5	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	16	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	3.1	42	ug/m ³ Air	TO-15	J
Toluene	30	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.5	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	7.4	8.8	ug/m ³ Air	TO-15	J
o-Xylene	3.3	4.4	ug/m ³ Air	TO-15	J

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Sample ID: SB8E1-25

Laboratory ID: T194108-15

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	110	12	ug/m ³ Air	TO-15	
cis-1,2-Dichloroethene	8.1	4.0	ug/m ³ Air	TO-15	
Tetrachloroethene	250	6.9	ug/m ³ Air	TO-15	
Trichloroethene	86	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	6.3	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	2.4	5.0	ug/m ³ Air	TO-15	J
Methyl isobutyl ketone	1.5	42	ug/m ³ Air	TO-15	J
Toluene	150	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.0	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	10	8.8	ug/m ³ Air	TO-15	
o-Xylene	4.3	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB8E2-5

Laboratory ID: T194108-16

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	41	12	ug/m ³ Air	TO-15	
Tetrachloroethene	11	6.9	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	310	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	410	5.0	ug/m ³ Air	TO-15	
Vinyl acetate	12	3.6	ug/m ³ Air	TO-15	
Toluene	100	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	95	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	130	8.8	ug/m ³ Air	TO-15	
o-Xylene	220	4.4	ug/m ³ Air	TO-15	

Sample ID: SB8E2-15

Laboratory ID: T194108-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	16	12	ug/m ³ Air	TO-15	
Tetrachloroethene	9.6	6.9	ug/m ³ Air	TO-15	
Trichloroethene	7.5	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	4.6	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	62	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	120	5.0	ug/m ³ Air	TO-15	
Toluene	200	3.8	ug/m ³ Air	TO-15	

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Sample ID: SB8E2-15

Laboratory ID: T194108-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Ethylbenzene	37	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	130	8.8	ug/m ³ Air	TO-15	
o-Xylene	57	4.4	ug/m ³ Air	TO-15	

Sample ID: SB8E2-25

Laboratory ID: T194108-18

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4-Ethyltoluene	1900	250	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	770	250	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	2800	250	ug/m ³ Air	TO-15	
Toluene	440	190	ug/m ³ Air	TO-15	
Ethylbenzene	320	220	ug/m ³ Air	TO-15	
m,p-Xylene	1600	220	ug/m ³ Air	TO-15	
o-Xylene	560	220	ug/m ³ Air	TO-15	

Sample ID: SB8W1-5

Laboratory ID: T194108-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	25	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	3.7	13	ug/m ³ Air	TO-15	J
Hexane	2.7	3.6	ug/m ³ Air	TO-15	J
Dichlorodifluoromethane	2.0	5.0	ug/m ³ Air	TO-15	J
4-Ethyltoluene	2.5	5.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	15	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	2.7	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	1.7	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	9.4	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	5.1	15	ug/m ³ Air	TO-15	J
Methyl isobutyl ketone	2.8	42	ug/m ³ Air	TO-15	J
Toluene	41	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	5.1	8.8	ug/m ³ Air	TO-15	J
o-Xylene	3.1	4.4	ug/m ³ Air	TO-15	J

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Sample ID: SB8W1-25

Laboratory ID: T194108-20

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	7.4	12	ug/m ³ Air	TO-15	J
Carbon Disulfide	1.1	3.2	ug/m ³ Air	TO-15	J
Tetrachloroethene	3.9	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	13	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	2.7	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	4.5	15	ug/m ³ Air	TO-15	J
Toluene	26	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	2.0	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB8W1-15

Laboratory ID: T194108-21

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	14	12	ug/m ³ Air	TO-15	
Carbon Disulfide	1.1	3.2	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.0	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	7.1	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	1.7	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	9.3	15	ug/m ³ Air	TO-15	J
Toluene	45	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	1.9	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB8W2-5

Laboratory ID: T194108-22

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	8.1	12	ug/m ³ Air	TO-15	J
Chloroform	1.6	5.0	ug/m ³ Air	TO-15	J
Hexane	3.7	3.6	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	1.6	5.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	11	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	3.8	5.7	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	4.2	15	ug/m ³ Air	TO-15	J
Toluene	4.1	3.8	ug/m ³ Air	TO-15	

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Sample ID: SB8W2-15

Laboratory ID: T194108-23

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	10	12	ug/m ³ Air	TO-15	J
Carbon Disulfide	1.2	3.2	ug/m ³ Air	TO-15	J
Trichloroethene	3.1	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	9.8	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	2.8	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	7.3	15	ug/m ³ Air	TO-15	J
Toluene	27	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	1.9	8.8	ug/m ³ Air	TO-15	J

Sample ID: SB8W2-25

Laboratory ID: T194108-24

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	15	12	ug/m ³ Air	TO-15	
Carbon Disulfide	1.3	3.2	ug/m ³ Air	TO-15	J
Isopropyl alcohol	7.3	13	ug/m ³ Air	TO-15	J
Dichlorodifluoromethane	1.8	5.0	ug/m ³ Air	TO-15	J
4-Ethyltoluene	3.5	5.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	3.1	6.9	ug/m ³ Air	TO-15	J
Trichloroethene	9.1	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	15	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	2.8	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	14	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	3.4	15	ug/m ³ Air	TO-15	J
Toluene	55	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	5.3	8.8	ug/m ³ Air	TO-15	J
o-Xylene	4.1	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB15S1-3

Laboratory ID: T194108-25

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	54	12	ug/m ³ Air	TO-15	
Carbon Disulfide	3.3	3.2	ug/m ³ Air	TO-15	
Hexane	6.8	3.6	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	2.1	5.0	ug/m ³ Air	TO-15	J
4-Ethyltoluene	3.2	5.0	ug/m ³ Air	TO-15	J

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Sample ID: SB15S1-3

Laboratory ID: T194108-25

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	12	6.9	ug/m ³ Air	TO-15	
Trichloroethene	4.5	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	3.0	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	2.7	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	7.5	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	10	15	ug/m ³ Air	TO-15	J
Methyl isobutyl ketone	3.0	42	ug/m ³ Air	TO-15	J
Toluene	220	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.9	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	17	8.8	ug/m ³ Air	TO-15	
o-Xylene	7.4	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15S2-5

Laboratory ID: T194108-26

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	9.4	12	ug/m ³ Air	TO-15	J
Carbon Disulfide	2.1	3.2	ug/m ³ Air	TO-15	J
Tetrachloroethene	5.2	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	3.3	5.7	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	1.7	15	ug/m ³ Air	TO-15	J
Toluene	280	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	4.8	8.8	ug/m ³ Air	TO-15	J
o-Xylene	2.1	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB15W1-4

Laboratory ID: T194108-27

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	5.4	12	ug/m ³ Air	TO-15	J
Carbon Disulfide	3.6	3.2	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	2.0	5.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	3.2	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	2.1	5.7	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	1.9	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	1.2	15	ug/m ³ Air	TO-15	J
Toluene	270	3.8	ug/m ³ Air	TO-15	

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Sample ID: SB15W1-4

Laboratory ID: T194108-27

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Ethylbenzene	2.9	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	11	8.8	ug/m ³ Air	TO-15	
o-Xylene	6.4	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15E2-5

Laboratory ID: T194108-28

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	54	12	ug/m ³ Air	TO-15	
1,3-Butadiene	6.1	4.5	ug/m ³ Air	TO-15	
Carbon Disulfide	3.3	3.2	ug/m ³ Air	TO-15	
Heptane	1.6	4.2	ug/m ³ Air	TO-15	J
Hexane	8.4	3.6	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	2.1	5.0	ug/m ³ Air	TO-15	J
4-Ethyltoluene	2.9	5.0	ug/m ³ Air	TO-15	J
Styrene	3.7	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	9.0	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	3.7	5.7	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	2.9	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	8.3	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	22	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	5.1	42	ug/m ³ Air	TO-15	J
Benzene	15	3.3	ug/m ³ Air	TO-15	
Toluene	62	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	10	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	39	8.8	ug/m ³ Air	TO-15	
o-Xylene	12	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15E2-15

Laboratory ID: T194108-29

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	53	12	ug/m ³ Air	TO-15	
1,3-Butadiene	3.0	4.5	ug/m ³ Air	TO-15	J
Carbon Disulfide	4.6	3.2	ug/m ³ Air	TO-15	
Heptane	3.8	4.2	ug/m ³ Air	TO-15	J
Hexane	7.5	3.6	ug/m ³ Air	TO-15	

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Sample ID: SB15E2-15

Laboratory ID: T194108-29

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Dichlorodifluoromethane	2.2	5.0	ug/m ³ Air	TO-15	J
4-Ethyltoluene	4.3	5.0	ug/m ³ Air	TO-15	J
Styrene	1.7	4.3	ug/m ³ Air	TO-15	J
Tetrachloroethene	34	6.9	ug/m ³ Air	TO-15	
Trichloroethene	7.0	5.5	ug/m ³ Air	TO-15	
Trichlorofluoromethane	9.3	5.7	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	1.6	5.0	ug/m ³ Air	TO-15	J
1,2,4-Trimethylbenzene	3.8	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	31	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	6.1	42	ug/m ³ Air	TO-15	J
Benzene	6.4	3.3	ug/m ³ Air	TO-15	
Toluene	280	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	10	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	36	8.8	ug/m ³ Air	TO-15	
o-Xylene	10	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15E2-20

Laboratory ID: T194108-30

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	74	12	ug/m ³ Air	TO-15	
1,3-Butadiene	3.9	4.5	ug/m ³ Air	TO-15	J
Carbon Disulfide	2.6	3.2	ug/m ³ Air	TO-15	J
Chloroform	2.0	5.0	ug/m ³ Air	TO-15	J
Hexane	9.5	3.6	ug/m ³ Air	TO-15	
Dichlorodifluoromethane	2.2	5.0	ug/m ³ Air	TO-15	J
Tetrachloroethene	62	6.9	ug/m ³ Air	TO-15	
Trichloroethene	1.9	5.5	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	13	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	36	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	5.9	42	ug/m ³ Air	TO-15	J
Benzene	3.0	3.3	ug/m ³ Air	TO-15	J
Toluene	170	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	2.7	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	5.9	8.8	ug/m ³ Air	TO-15	J
o-Xylene	1.9	4.4	ug/m ³ Air	TO-15	J



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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S1-5
T194108-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.63	9112717	11/27/19	12/07/19	TO-15
Acetone	22	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	14	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S1-5
T194108-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.63	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	200	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	28	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	8.3	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	70	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	5.5	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	4.6	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

91.6 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S1-15
T194108-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.48	9112717	11/27/19	12/07/19	TO-15	
Acetone	35	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S1-15
T194108-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.48	9112717	11/27/19	12/07/19	TO-15	
Styrene	2.1	0.19	4.3	"	"	"	"	"	"	J
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	12	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	17	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	76	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	17	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	3.1	0.14	42	"	"	"	"	"	"	J
Benzene	1.5	0.14	3.3	"	"	"	"	"	"	J
Toluene	32	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	8.8	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	45	0.20	8.8	"	"	"	"	"	"	
o-Xylene	20	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			98.9 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S1-25
T194108-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.56	9112717	11/27/19	12/07/19	TO-15
Acetone	40	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	24	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S1-25
T194108-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.56	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	6.1	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	8.3	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.1	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	12	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	66	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	3.0	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	1.9	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

95.8 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S2-5
T194108-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
1,1-Difluoroethane (Freon 152)	ND	91	270	ug/m ³ Air	1.46	9112717	11/27/19	11/27/19	TO-15	
Acetone	ND	17	120	"	"	"	"	"	"	
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	
Bromoform	ND	26	530	"	"	"	"	"	"	
Bromomethane	ND	15	200	"	"	"	"	"	"	
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	
Chloroethane	ND	11	130	"	"	"	"	"	"	
Chloroform	ND	9.4	250	"	"	"	"	"	"	
Chloromethane	ND	7.4	110	"	"	"	"	"	"	
Cyclohexane	ND	12	170	"	"	"	"	"	"	
Heptane	ND	21	210	"	"	"	"	"	"	
Hexane	ND	10	180	"	"	"	"	"	"	
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	
4-Ethyltoluene	470	15	250	"	"	"	"	"	"	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S2-5
T194108-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
Methylene chloride	ND	17	180	ug/m ³ Air	1.46	9112717	11/27/19	11/27/19	TO-15	
Styrene	ND	13	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	
Tetrachloroethene	ND	19	350	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	440	15	250	"	"	"	"	"	"	
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	
Benzene	ND	4.9	160	"	"	"	"	"	"	
Toluene	250	11	190	"	"	"	"	"	"	
Ethylbenzene	240	10	220	"	"	"	"	"	"	
m,p-Xylene	1500	15	220	"	"	"	"	"	"	
o-Xylene	460	9.3	220	"	"	"	"	"	"	

Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S2-15
T194108-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
1,1-Difluoroethane (Freon 152)	ND	91	270	ug/m ³ Air	1.5	9112717	11/27/19	11/27/19	TO-15	
Acetone	ND	17	120	"	"	"	"	"	"	
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	
Bromoform	ND	26	530	"	"	"	"	"	"	
Bromomethane	ND	15	200	"	"	"	"	"	"	
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	
Chloroethane	ND	11	130	"	"	"	"	"	"	
Chloroform	ND	9.4	250	"	"	"	"	"	"	
Chloromethane	ND	7.4	110	"	"	"	"	"	"	
Cyclohexane	ND	12	170	"	"	"	"	"	"	
Heptane	ND	21	210	"	"	"	"	"	"	
Hexane	ND	10	180	"	"	"	"	"	"	
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	
4-Ethyltoluene	390	15	250	"	"	"	"	"	"	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S2-15
T194108-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
Methylene chloride	ND	17	180	ug/m ³ Air	1.5	9112717	11/27/19	11/27/19	TO-15	
Styrene	ND	13	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	
Tetrachloroethene	ND	19	350	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	130	15	250	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	410	15	250	"	"	"	"	"	"	
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	
Benzene	ND	4.9	160	"	"	"	"	"	"	
Toluene	230	11	190	"	"	"	"	"	"	
Ethylbenzene	140	10	220	"	"	"	"	"	"	J
m,p-Xylene	910	15	220	"	"	"	"	"	"	
o-Xylene	280	9.3	220	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S2-25
T194108-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.47	9112717	11/27/19	12/07/19	TO-15
Acetone	20	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8S2-25
T194108-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.47	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	23	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	12	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	63	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	190	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	5.9	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	0.76	0.14	3.3	"	"	"	"	"	"	J
Toluene	150	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	44	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	210	0.20	8.8	"	"	"	"	"	"	
o-Xylene	91	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			101 %	40-160	"	"	"	"	"	



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N1-5
T194108-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.47	9112717	11/27/19	12/07/19	TO-15
Acetone	30	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N1-5
T194108-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.47	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	35	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.9	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	4.5	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	1.6	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	0.19	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

94.5 %

40-160

"

"

"

"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N1-15
T194108-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.49	9112717	11/27/19	12/07/19	TO-15
Acetone	26	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	16	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N1-15
T194108-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.49	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.9	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	11	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	8.7	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	50	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.3	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	8.6	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	4.1	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

93.9 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N1-25
T194108-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.68	9112717	11/27/19	12/07/19	TO-15
Acetone	18	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N1-25
T194108-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.68	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	47	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	4.0	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	17	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	9.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	40	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	2.7	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	1.5	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

94.7 %

40-160

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N2-5
T194108-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.53	9112717	11/27/19	12/07/19	TO-15
Acetone	22	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N2-5
T194108-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.53	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	44	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	7.4	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	9.7	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	3.8	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	4.5	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
<hr/>										
Surrogate: 4-Bromofluorobenzene			88.6 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N2-15
T194108-11(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9112717	11/27/19	12/07/19	TO-15
Acetone	16	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N2-15
T194108-11(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.52	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	28	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	1.7	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	11	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	11	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	37	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.8	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	5.0	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

93.3 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N2-25
T194108-12(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.54	9112717	11/27/19	12/07/19	TO-15
Acetone	ND	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8N2-25
T194108-12(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.54	9112717	11/27/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	18	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	17	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.2	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	6.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	6.9	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	2.8	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 92.7 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E1-5
T194108-13(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.53	9112717	11/27/19	12/08/19	TO-15
Acetone	790	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	14	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	6.1	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E1-5
T194108-13(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.53	9112717	11/27/19	12/08/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	20	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	8.9	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	35	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	23	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	330	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	16	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	71	0.20	8.8	"	"	"	"	"	"	
o-Xylene	33	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

97.6 %

40-160

"

"

"

"



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E1-15
T194108-14(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.5	9112717	11/27/19	12/08/19	TO-15	
Acetone	37	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E1-15
T194108-14(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.5	9112717	11/27/19	12/08/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	12	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	1.6	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	16	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	3.1	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	30	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.5	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	7.4	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	3.3	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 99.5 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E1-25
T194108-15(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.7	9112717	11/27/19	12/08/19	TO-15
Acetone	110	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	8.1	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E1-25
T194108-15(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.7	9112717	11/27/19	12/08/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	250	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	86	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	6.3	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.4	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	1.5	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	150	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.0	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	10	0.20	8.8	"	"	"	"	"	"	
o-Xylene	4.3	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 93.2 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E2-5
T194108-16(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.53	9112717	11/27/19	12/08/19	TO-15
Acetone	41	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E2-5
T194108-16(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.53	9112717	11/27/19	12/08/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	11	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	310	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	410	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	12	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	100	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	95	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	130	0.20	8.8	"	"	"	"	"	"	
o-Xylene	220	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

103 %

40-160

"

"

"

"



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E2-15
T194108-17(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.5	9112717	11/27/19	12/08/19	TO-15
Acetone	16	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E2-15
T194108-17(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.5	9112717	11/27/19	12/08/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	9.6	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	7.5	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	4.6	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	62	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	120	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	200	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	37	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	130	0.20	8.8	"	"	"	"	"	"	
o-Xylene	57	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

100 %

40-160

"

"

"

"



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E2-25
T194108-18(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
1,1-Difluoroethane (Freon 152)	ND	91	270	ug/m ³ Air	1.53	9120240	12/02/19	12/02/19	TO-15	
Acetone	ND	17	120	"	"	"	"	"	"	
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	
Bromoform	ND	26	530	"	"	"	"	"	"	
Bromomethane	ND	15	200	"	"	"	"	"	"	
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	
Chloroethane	ND	11	130	"	"	"	"	"	"	
Chloroform	ND	9.4	250	"	"	"	"	"	"	
Chloromethane	ND	7.4	110	"	"	"	"	"	"	
Cyclohexane	ND	12	170	"	"	"	"	"	"	
Heptane	ND	21	210	"	"	"	"	"	"	
Hexane	ND	10	180	"	"	"	"	"	"	
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	
4-Ethyltoluene	1900	15	250	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8E2-25
T194108-18(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
Methylene chloride	ND	17	180	ug/m ³ Air	1.53	9120240	12/02/19	12/02/19	TO-15	
Styrene	ND	13	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	
Tetrachloroethene	ND	19	350	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	770	15	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2800	15	250	"	"	"	"	"	"	
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	
Benzene	ND	4.9	160	"	"	"	"	"	"	
Toluene	440	11	190	"	"	"	"	"	"	
Ethylbenzene	320	10	220	"	"	"	"	"	"	
m,p-Xylene	1600	15	220	"	"	"	"	"	"	
o-Xylene	560	9.3	220	"	"	"	"	"	"	

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W1-5
T194108-19(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.66	9120240	12/02/19	12/06/19	TO-15	
Acetone	25	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	3.7	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	2.7	0.43	3.6	"	"	"	"	"	"	J
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	2.0	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	2.5	0.25	5.0	"	"	"	"	"	"	J

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W1-5
T194108-19(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.66	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	15	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	2.7	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	1.7	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	9.4	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	5.1	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	2.8	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	41	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	5.1	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	3.1	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 94.7% 40-160 " " " "

SunStar Laboratories, Inc.

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.

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W1-25
T194108-20(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.47	9120240	12/02/19	12/06/19	TO-15	
Acetone	7.4	0.49	12	"	"	"	"	"	"	J
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	1.1	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W1-25
T194108-20(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.47	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	3.9	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	13	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.7	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	4.5	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	26	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	2.0	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

96.1 %

40-160

"

"

"

"



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W1-15
T194108-21(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.46	9120240	12/02/19	12/06/19	TO-15	
Acetone	14	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	1.1	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W1-15
T194108-21(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.46	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.0	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	7.1	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.7	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	9.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	45	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	1.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

95.5 %

40-160

"

"

"

"





25712 Commercentre Drive
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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W2-5
T194108-22(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.56	9120240	12/02/19	12/06/19	TO-15	
Acetone	8.1	0.49	12	"	"	"	"	"	"	J
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	1.6	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	3.7	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	1.6	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W2-5
T194108-22(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.56	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	11	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	3.8	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	4.2	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	4.1	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			93.2 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W2-15
T194108-23(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.62	9120240	12/02/19	12/06/19	TO-15	
Acetone	10	0.49	12	"	"	"	"	"	"	J
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	1.2	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W2-15
T194108-23(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.62	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	3.1	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	9.8	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.8	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	7.3	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	27	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	1.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

95.9 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W2-25
T194108-24(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.53	9120240	12/02/19	12/06/19	TO-15	
Acetone	15	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	1.3	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	7.3	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	1.8	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	3.5	0.25	5.0	"	"	"	"	"	"	J

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB8W2-25
T194108-24(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.53	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	3.1	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	9.1	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	15	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.8	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	14	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	3.4	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	55	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	5.3	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	4.1	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 93.8 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15S1-3
T194108-25(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.56	9120240	12/02/19	12/06/19	TO-15	
Acetone	54	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	3.3	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	6.8	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	2.1	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	3.2	0.25	5.0	"	"	"	"	"	"	J

SunStar Laboratories, Inc.

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1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15S1-3
T194108-25(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.56	9120240	12/02/19	12/06/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	12	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	4.5	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	3.0	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	2.7	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	7.5	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	10	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	3.0	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	220	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.9	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	17	0.20	8.8	"	"	"	"	"	"	
o-Xylene	7.4	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			97.4 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15S2-5
T194108-26(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.63	9120240	12/02/19	12/07/19	TO-15	
Acetone	9.4	0.49	12	"	"	"	"	"	"	J
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	2.1	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15S2-5
T194108-26(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.63	9120240	12/02/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	5.2	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	3.3	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	1.7	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	280	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	4.8	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	2.1	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

98.3 %

40-160

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"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15W1-4
T194108-27(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.56	9120240	12/02/19	12/07/19	TO-15	
Acetone	5.4	0.49	12	"	"	"	"	"	"	J
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	3.6	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	2.0	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15W1-4
T194108-27(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.56	9120240	12/02/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	3.2	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	2.1	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.9	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	1.2	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	270	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.9	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	11	0.20	8.8	"	"	"	"	"	"	
o-Xylene	6.4	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

97.3 %

40-160

"

"

"

"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15E2-5
T194108-28(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.61	9120240	12/02/19	12/07/19	TO-15	
Acetone	54	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	6.1	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	3.3	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	1.6	0.15	4.2	"	"	"	"	"	"	J
Hexane	8.4	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	2.1	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	2.9	0.25	5.0	"	"	"	"	"	"	J
Methylene chloride	ND	0.079	18	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15E2-5
T194108-28(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	3.7	0.19	4.3	ug/m ³ Air	1.61	9120240	12/02/19	12/07/19	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	9.0	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	3.7	0.24	5.7	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	2.9	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	8.3	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	22	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	5.1	0.14	42	"	"	"	"	"	"	J
Benzene	15	0.14	3.3	"	"	"	"	"	"	
Toluene	62	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	10	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	39	0.20	8.8	"	"	"	"	"	"	
o-Xylene	12	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 101 % 40-160 " " " "

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15E2-15
T194108-29(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.48	9120240	12/02/19	12/07/19	TO-15	
Acetone	53	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	3.0	0.29	4.5	"	"	"	"	"	"	J
Carbon Disulfide	4.6	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	3.8	0.15	4.2	"	"	"	"	"	"	J
Hexane	7.5	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	2.2	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	4.3	0.25	5.0	"	"	"	"	"	"	J
Methylene chloride	ND	0.079	18	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15E2-15
T194108-29(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	1.7	0.19	4.3	ug/m ³ Air	1.48	9120240	12/02/19	12/07/19	TO-15	J
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	34	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	7.0	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	9.3	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.6	0.49	5.0	"	"	"	"	"	"	J
1,2,4-Trimethylbenzene	3.8	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	31	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	6.1	0.14	42	"	"	"	"	"	"	J
Benzene	6.4	0.14	3.3	"	"	"	"	"	"	
Toluene	280	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	10	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	36	0.20	8.8	"	"	"	"	"	"	
o-Xylene	10	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 103 % 40-160 " " " "

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15E2-20
T194108-30(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.6	9120240	12/02/19	12/07/19	TO-15	
Acetone	74	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	3.9	0.29	4.5	"	"	"	"	"	"	J
Carbon Disulfide	2.6	0.22	3.2	"	"	"	"	"	"	J
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"	
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	2.0	0.15	5.0	"	"	"	"	"	"	J
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	9.5	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	2.2	0.18	5.0	"	"	"	"	"	"	J
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

SB15E2-20
T194108-30(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.6	9120240	12/02/19	12/07/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	62	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	1.9	0.21	5.5	"	"	"	"	"	"	J
Trichlorofluoromethane	13	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	36	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	5.9	0.14	42	"	"	"	"	"	"	J
Benzene	3.0	0.14	3.3	"	"	"	"	"	"	J
Toluene	170	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	2.7	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	5.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	1.9	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene 103 % 40-160 " " " "

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112717 - Canister Analysis

Blank (9112717-BLK1)

Prepared: 11/27/19 Analyzed: 12/04/19

<i>Surrogate: 4-Bromofluorobenzene</i>	271			ug/m ³ Air	362		74.7	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112717 - Canister Analysis

Blank (9112717-BLK1)

Prepared: 11/27/19 Analyzed: 12/04/19

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air
trans-1,2-Dichloroethene	ND	0.22	4.0	"
1,2-Dichloropropane	ND	0.13	4.7	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"
4-Ethyltoluene	ND	0.25	5.0	"
Methylene chloride	ND	0.079	18	"
Styrene	ND	0.19	4.3	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"
Tetrahydrofuran	ND	0.25	3.0	"
Tetrachloroethene	ND	0.21	6.9	"
1,1,2-Trichloroethane	ND	0.19	5.6	"
1,1,1-Trichloroethane	ND	0.24	5.6	"
Trichloroethene	ND	0.21	5.5	"
Trichlorofluoromethane	ND	0.24	5.7	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"
Vinyl acetate	ND	0.18	3.6	"
Vinyl chloride	ND	0.052	2.6	"
1,4-Dioxane	ND	0.97	18	"
2-Butanone (MEK)	ND	0.45	15	"
Methyl isobutyl ketone	ND	0.14	42	"
Benzene	ND	0.14	3.3	"
Toluene	ND	0.14	3.8	"
Ethylbenzene	ND	0.14	4.4	"
m,p-Xylene	ND	0.20	8.8	"
o-Xylene	ND	0.085	4.4	"

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Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112717 - Canister Analysis

Duplicate (9112717-DUP1)

Source: T194102-02

Prepared: 11/27/19 Analyzed: 12/04/19

<i>Surrogate: 4-Bromofluorobenzene</i>	361			ug/m ³ Air	362		99.7	40-160			
Acetone	ND	0.49	12	"		ND				30	
1,3-Butadiene	ND	0.29	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.55	13	"		ND				30	
Bromodichloromethane	ND	0.16	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.55	20	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.098	4.7	"		ND				30	
Chloroethane	ND	0.35	2.7	"		ND				30	
Chloroform	ND	0.15	5.0	"		ND				30	
Chloromethane	ND	0.46	11	"		ND				30	
Cyclohexane	4.50	0.16	3.5	"		4.50			0.00	30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.43	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	31	"		ND				30	
1,3-Dichlorobenzene	ND	0.43	31	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	31	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9112717 - Canister Analysis

Duplicate (9112717-DUP1)		Source: T194102-02			Prepared: 11/27/19 Analyzed: 12/04/19						
cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air	ND					30	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	ND					30	
1,2-Dichloropropane	ND	0.13	4.7	"	ND					30	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	ND					30	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	ND					30	
4-Ethyltoluene	ND	0.25	5.0	"	ND					30	
Methylene chloride	ND	0.079	18	"	ND					30	
Styrene	ND	0.19	4.3	"	ND					30	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	ND					30	
Tetrahydrofuran	35.2	0.25	3.0	"	32.7				7.35	30	
Tetrachloroethene	107	0.21	6.9	"	103				4.14	30	
1,1,2-Trichloroethane	ND	0.19	5.6	"	ND					30	
1,1,1-Trichloroethane	ND	0.24	5.6	"	ND					30	
Trichloroethene	24.9	0.21	5.5	"	24.9				0.00	30	
Trichlorofluoromethane	ND	0.24	5.7	"	ND					30	
1,3,5-Trimethylbenzene	3.80	0.49	5.0	"	3.72				1.94	30	J
1,2,4-Trimethylbenzene	11.8	0.33	5.0	"	11.6				1.25	30	
Vinyl acetate	ND	0.18	3.6	"	ND					30	
Vinyl chloride	ND	0.052	2.6	"	ND					30	
1,4-Dioxane	ND	0.97	18	"	ND					30	
2-Butanone (MEK)	12.7	0.45	15	"	12.5				1.74	30	J
Methyl isobutyl ketone	ND	0.14	42	"	ND					30	
Benzene	ND	0.14	3.3	"	ND					30	
Toluene	6.72	0.14	3.8	"	6.44				4.26	30	
Ethylbenzene	1.74	0.14	4.4	"	2.06				16.9	30	J
m,p-Xylene	10.5	0.20	8.8	"	11.0				4.79	30	
o-Xylene	4.06	0.085	4.4	"	4.06				0.00	30	J

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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120240 - Canister Analysis

Blank (9120240-BLK1)

Prepared: 12/02/19 Analyzed: 12/06/19

<i>Surrogate: 4-Bromofluorobenzene</i>	360			ug/m ³ Air	362		99.3	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120240 - Canister Analysis

Blank (9120240-BLK1)

Prepared: 12/02/19 Analyzed: 12/06/19

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air
trans-1,2-Dichloroethene	ND	0.22	4.0	"
1,2-Dichloropropane	ND	0.13	4.7	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"
4-Ethyltoluene	ND	0.25	5.0	"
Methylene chloride	ND	0.079	18	"
Styrene	ND	0.19	4.3	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"
Tetrahydrofuran	ND	0.25	3.0	"
Tetrachloroethene	ND	0.21	6.9	"
1,1,2-Trichloroethane	ND	0.19	5.6	"
1,1,1-Trichloroethane	ND	0.24	5.6	"
Trichloroethene	ND	0.21	5.5	"
Trichlorofluoromethane	ND	0.24	5.7	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"
Vinyl acetate	ND	0.18	3.6	"
Vinyl chloride	ND	0.052	2.6	"
1,4-Dioxane	ND	0.97	18	"
2-Butanone (MEK)	ND	0.45	15	"
Methyl isobutyl ketone	ND	0.14	42	"
Benzene	ND	0.14	3.3	"
Toluene	ND	0.14	3.8	"
Ethylbenzene	ND	0.14	4.4	"
m,p-Xylene	ND	0.20	8.8	"
o-Xylene	ND	0.085	4.4	"

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TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120240 - Canister Analysis

Duplicate (9120240-DUP1)		Source: T194108-18			Prepared & Analyzed: 12/02/19				TO-14		
1,1-Difluoroethane (Freon 152)	ND	91	270	ug/m ³ Air	ND						
Acetone	ND	17	120	"	ND				30		
1,3-Butadiene	ND	8.3	110	"	ND				30		
Carbon Disulfide	ND	11	160	"	ND				30		
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	ND				30		
Isopropyl alcohol	ND	22	130	"	ND				30		
Bromodichloromethane	ND	15	340	"	ND				30		
Bromoform	ND	26	530	"	ND				30		
Bromomethane	ND	15	200	"	ND				30		
Carbon tetrachloride	ND	12	320	"	ND				30		
Chlorobenzene	ND	5.6	230	"	ND				30		
Chloroethane	ND	11	130	"	ND				30		
Chloroform	ND	9.4	250	"	ND				30		
Chloromethane	ND	7.4	110	"	ND				30		
Cyclohexane	ND	12	170	"	ND				30		
Heptane	ND	21	210	"	ND				30		
Hexane	ND	10	180	"	ND				30		
Dibromochloromethane	ND	24	430	"	ND				30		
1,2-Dibromoethane (EDB)	ND	13	390	"	ND				30		
1,2-Dichlorobenzene	ND	18	310	"	ND				30		
1,3-Dichlorobenzene	ND	24	310	"	ND				30		
1,4-Dichlorobenzene	ND	22	310	"	ND				30		
Dichlorodifluoromethane	ND	15	250	"	ND				30		
1,1-Dichloroethane	ND	10	210	"	ND				30		
1,2-Dichloroethane	ND	14	210	"	ND				30		
1,1-Dichloroethene	ND	6.5	200	"	ND				30		
cis-1,2-Dichloroethene	ND	9.7	200	"	ND				30		

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Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120240 - Canister Analysis

Duplicate (9120240-DUP1)	Source: T194108-18			Prepared & Analyzed: 12/02/19				TO-14			
trans-1,2-Dichloroethene	ND	13	200	ug/m ³ Air		ND			30		
1,2-Dichloropropane	ND	24	240	"		ND			30		
cis-1,3-Dichloropropene	ND	13	230	"		ND			30		
trans-1,3-Dichloropropene	ND	8.3	230	"		ND			30		
4-Ethyltoluene	1850	15	250	"		1930		3.99	30		
Methylene chloride	ND	17	180	"		ND			30		
Styrene	ND	13	220	"		ND			30		
1,1,2,2-Tetrachloroethane	ND	19	350	"		ND			30		
Tetrahydrofuran	ND	15	150	"		ND			30		
Tetrachloroethene	ND	19	350	"		ND			30		
1,1,2-Trichloroethane	ND	12	280	"		ND			30		
1,1,1-Trichloroethane	ND	11	280	"		ND			30		
Trichloroethene	ND	8.7	270	"		ND			30		
Trichlorofluoromethane	ND	13	290	"		ND			30		
1,3,5-Trimethylbenzene	741	15	250	"		768		3.61	30		
1,2,4-Trimethylbenzene	2650	15	250	"		2800		5.30	30		
Vinyl acetate	ND	9.7	180	"		ND			30		
Vinyl chloride	ND	9.6	130	"		ND			30		
1,4-Dioxane	ND	59	180	"		ND			30		
2-Butanone (MEK)	ND	11	150	"		ND			30		
Methyl isobutyl ketone	ND	50	210	"		ND			30		
Benzene	ND	4.9	160	"		ND			30		
Toluene	429	11	190	"		437		1.84	30		
Ethylbenzene	315	10	220	"		319		1.34	30		
m,p-Xylene	1450	15	220	"		1570		7.84	30		
o-Xylene	484	9.3	220	"		557		14.1	30		

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/09/19 16:30

Notes and Definitions

TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.

J Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

AIR LABORATORY

Chain of Custody Record



**SunStar
Laboratories**

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Partner ESI
Address: 1761 E Garry Ave., Santa Ana, CA
Phone: 932-265-7187 Fax: _____
Project Manager: David Kerrell

Date: 11/26/19 Page: 1 Of 2
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: 194108 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Summa Can # / Comments
01	SB8S1-5'	11/26/19	1029	1035	Soil Gas	Summa	-27"	-2"			X				0308
02	SB8S1-15'		1014	1022			-26	-1			X				0311
03	SB8S1-25'		1015	1022			-28	-1			X				0318
04	SB8S2-5'		1045	1054			-30	-1			X				0325
05	SB8S2-15'		1045	1059			-32	-4			X				0326
06	SB8S2-25'		1100	1108			-29	-2			X				0327
07	SB8N1-5'		1117	1125			-28	-2			X				0331
08	SB8N1-15'		1107	1116			-26	-2			X				0338
09	SB8N1-25'		1129	1135			-28	-2			X				0342
10	SB8N2-5'		1146	1158			-29	-2			X				0347
11	SB8N2-15'		1131	1141			-29	-2			X				0357
12	SB8N2-25'		1147	1156			-30	-2			X				0369
13	SB8E1-5'		1207	1217			-30	-2			X				0372
14	SB8E1-15'		1224	1232			-30	-2			X				0374
15	SB8E1-25'	✓	1208	1217	✓	✓	-30	-2			X				0382

Relinquished by: (signature) David Kerrell Date / Time 11/26/19 10:05

Relinquished by: (signature) _____ Date / Time _____

Relinquished by: (signature) _____ Date / Time _____

Received by: (signature) [Signature] Date / Time 11-26-19 10:05

Received by: (signature) _____ Date / Time _____

Received by: (signature) _____ Date / Time _____

Total # of containers 15

Chain of Custody seals Y/N/NA (NA)

Seals intact? Y/N/NA (NA)

Received good condition/cold _____

Turn around time: std.

Notes

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

COCAL 180466

AIR LABORATORY

Chain of Custody Record



**SunStar
Laboratories**

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-787 Fax: _____
Project Manager: David Horrell

Date: 11/26/19 Page: 2 Of 2
Project Name: Whittram Fontana
Collector: DM Client Project #: SM19-259094
Batch #: 7194108 EDF #: _____

Laboratory ID #	Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD	Summa Can # / Comments
16	SB8 E2 - 5'	11/26/19	1238	1247	Soil Gas	Summa	-30"	-2"			X				0394
17	SB8 E2 - 15'		1225	1240			-30	-4			X				0399
18	SB8 E2 - 25'		1247	1255			-29	-2			X				0412
19	SB8 W1 - 5'		1311	1317			-27	-2			X				0413
20	SB8 W1 - 25'		1302	1310			-26	-1			X				0420
21	SB8 W1 - 15'		1254	1303			-29	-1			X				0427
22	SB8 W2 - 5'		1331	1339			-28	-2			X				0454
23	SB8 W2 - 15'		1318	1326			-29	-2			X				0462
24	SB8 W2 - 25'		1325	1334			-29	-2			X				0470
25	SB15 S1 - 3'		1527	1536			-28	-2			X				0485
26	SB15 S2 - 5'		1535	1542			-28	-2			X				0490
27	SB15 W1 - 4'		1542	1549			-29	-2			X				0492
28	SB15 E2 - 5'		1559	1605			-27	-1			X				0602
29	SB15 E2 - 15'		1552	1602			-30	-2			X				0605
30	SB15 E2 - 20'		1610	1621			-30	-3			X				0608

Relinquished by: (signature) David Horrell Date / Time 11/26/19 @ 1805

Relinquished by: (signature) _____ Date / Time _____

Relinquished by: (signature) _____ Date / Time _____

Received by: (signature) [Signature] Date / Time 11-26-19 18:05

Received by: (signature) _____ Date / Time _____

Received by: (signature) _____ Date / Time _____

Total # of containers 15

Chain of Custody seals Y/N/NA Y

Seals intact? Y/N/NA Y

Received good condition/cold Y

Notes

Turn around time: Std

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

COCAL 180467

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

7194108

Client Name:

PARTNER - SANTA ANA

Project:

WHITTRAM FONTANA

Delivered by:

☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier
Received:

Lab Received by:

Date/Time Lab
Received:

SUNSTAR

11-26-19 / 18:05

Total number of coolers received:

0

Thermometer ID:

Calibration due : 6/27/20

Temperature: Cooler #1	—	°C +/- the CF (+ 1.2°C)	=	—	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (+ 1.2°C)	=		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (+ 1.2°C)	=		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)			Within criteria?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If NO:					
Samples received on ice?		<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?		<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample

☐ Yes ☐ No* ☒ N/A

Sample containers intact

☒ Yes ☐ No*

Sample labels match Chain of Custody IDs

☒ Yes ☐ No*

Total number of containers received match COC

☒ Yes ☐ No*

Proper containers received for analyses requested on COC

☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested

☐ Yes ☐ No* ☒ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times

☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date:

SL 11-27-19

Comments:



Project Name: SM19-259094				Rebecca	
Company: PARTNER ESI					
Name: DAVID HORRELL					
Item	Quantity	Unit			
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 120/CS					
1 Liter Poly 36/CS					
500 ml Poly 60/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box					
	(1) Methanol VOA 72/box				
	(1)Syringe 50/pack				
Lock-N-Load Handle 1/ea					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
	Volume of Summa	# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				29
	1L	81	CHARGE - 30		
	3L				
	6L				
Purge cans					
Nitrogen cans		16	CHARGE - 8		3
Ind. Certified Summa Cannisters	1L				
	3L				
	6L				
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					PB
Manifolds: Inst. Sampler, Variable Sampler		25-MANIFOLDS (150) CHARGE - 2			
Swagelok Fittings: Nuts/Ferrules, Ts					
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves,Silicon Tape, etc.		81-SHUT IN TEST SETUPS		CHARGE - 30	
Prepared By: SL		Date: 11-19-19			
Reviewed By:		Date:			
Comments:					

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 11/27/2019

User Name: Berner, Paul

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0045 -N	1000cc: 1000cc Summa	0045	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0097 -N	1000cc: 1000cc Summa	0097	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0114 -N	1000cc: 1000cc Summa	0114	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0137 -N	1000cc: 1000cc Summa	0137	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0143 -N	1000cc: 1000cc Summa	0143	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0251 -N	1000cc: 1000cc Summa	0251	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0308	1000cc: 1000cc Summa	0308	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0311	1000cc: 1000cc Summa	0311	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0318	1000cc: 1000cc Summa	0318	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0325	1000cc: 1000cc Summa	0325	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0326	1000cc: 1000cc Summa	0326	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0327	1000cc: 1000cc Summa	0327	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0331	1000cc: 1000cc Summa	0331	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0338	1000cc: 1000cc Summa	0338	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0342	1000cc: 1000cc Summa	0342	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0347	1000cc: 1000cc Summa	0347	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0357	1000cc: 1000cc Summa	0357	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0369	1000cc: 1000cc Summa	0369	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0372	1000cc: 1000cc Summa	0372	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 11/27/2019

User Name: Berner, Paul

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0374	1000cc: 1000cc Summa	0374	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0382	1000cc: 1000cc Summa	0382	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0394	1000cc: 1000cc Summa	0394	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0399	1000cc: 1000cc Summa	0399	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0412	1000cc: 1000cc Summa	0412	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0413	1000cc: 1000cc Summa	0413	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0420	1000cc: 1000cc Summa	0420	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0427	1000cc: 1000cc Summa	0427	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0454	1000cc: 1000cc Summa	0454	Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0462	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0470	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
0485	1000cc: 1000cc Summa	0485	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0490	1000cc: 1000cc Summa	0490	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0492	1000cc: 1000cc Summa	0492	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0493 -N	1000cc: 1000cc Summa	0493	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0497 -N	1000cc: 1000cc Summa	0497	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0729 -N	1000cc: 1000cc Summa	0729	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0795 -N	1000cc: 1000cc Summa	0795	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0878 -N	1000cc: 1000cc Summa	0878	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2118	Chameleon-150: Chameleon 150 Manifold	2118	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 11/27/2019

User Name: Berner, Paul

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
2142	Chameleon-150: Chameleon 150 Manifold	2142	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2147	Chameleon-150: Chameleon 150 Manifold	2147	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
602	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
604 -N	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
605	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
608	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
706 -N	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell

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WORK ORDER

T194108

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/06/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/26/19 18:05

Logged In By: Sunny Lounethone

Date Logged In: 11/27/19 09:46

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T194108-01 SB8S1-5 [Air] Sampled 11/26/19 10:29 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 10:29	MDL; +1,1 DFA
T194108-02 SB8S1-15 [Air] Sampled 11/26/19 10:14 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 10:14	MDL; +1,1 DFA
T194108-03 SB8S1-25 [Air] Sampled 11/26/19 10:15 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 10:15	MDL; +1,1 DFA
T194108-04 SB8S2-5 [Air] Sampled 11/26/19 10:45 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 10:45	MDL; +1,1 DFA
T194108-05 SB8S2-15 [Air] Sampled 11/26/19 10:45 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 10:45	MDL; +1,1 DFA
T194108-06 SB8S2-25 [Air] Sampled 11/26/19 11:00 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:00	MDL; +1,1 DFA
T194108-07 SB8N1-5 [Air] Sampled 11/26/19 11:17 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:17	MDL; +1,1 DFA

WORK ORDER

T194108

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194108-08 SB8N1-15 [Air] Sampled 11/26/19 11:07 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:07	MDL; +1,1 DFA
T194108-09 SB8N1-25 [Air] Sampled 11/26/19 11:29 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:29	MDL; +1,1 DFA
T194108-10 SB8N2-5 [Air] Sampled 11/26/19 11:46 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:46	MDL; +1,1 DFA
T194108-11 SB8N2-15 [Air] Sampled 11/26/19 11:31 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:31	MDL; +1,1 DFA
T194108-12 SB8N2-25 [Air] Sampled 11/26/19 11:47 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 11:47	MDL; +1,1 DFA
T194108-13 SB8E1-5 [Air] Sampled 11/26/19 12:07 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:07	MDL; +1,1 DFA
T194108-14 SB8E1-15 [Air] Sampled 11/26/19 12:24 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:24	MDL; +1,1 DFA
T194108-15 SB8E1-25 [Air] Sampled 11/26/19 12:08 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:08	MDL; +1,1 DFA
T194108-16 SB8E2-5 [Air] Sampled 11/26/19 12:38 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:38	MDL; +1,1 DFA
T194108-17 SB8E2-15 [Air] Sampled 11/26/19 12:25 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:25	MDL; +1,1 DFA
T194108-18 SB8E2-25 [Air] Sampled 11/26/19 12:47 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:47	MDL; +1,1 DFA

WORK ORDER

T194108

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194108-19 SB8W1-5 [Air] Sampled 11/26/19 13:11 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 13:11	MDL; +1,1 DFA
T194108-20 SB8W1-25 [Air] Sampled 11/26/19 13:02 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 13:02	MDL; +1,1 DFA
T194108-21 SB8W1-15 [Air] Sampled 11/26/19 12:54 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 12:54	MDL; +1,1 DFA
T194108-22 SB8W2-5 [Air] Sampled 11/26/19 13:31 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 13:31	MDL; +1,1 DFA
T194108-23 SB8W2-15 [Air] Sampled 11/26/19 13:18 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 13:18	MDL; +1,1 DFA
T194108-24 SB8W2-25 [Air] Sampled 11/26/19 13:25 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 13:25	MDL; +1,1 DFA
T194108-25 SB15S1-3 [Air] Sampled 11/26/19 15:27 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 15:27	MDL; +1,1 DFA
T194108-26 SB15S2-5 [Air] Sampled 11/26/19 15:35 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 15:35	MDL; +1,1 DFA
T194108-27 SB15W1-4 [Air] Sampled 11/26/19 15:42 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 15:42	MDL; +1,1 DFA
T194108-28 SB15E2-5 [Air] Sampled 11/26/19 15:59 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 15:59	MDL; +1,1 DFA
T194108-29 SB15E2-15 [Air] Sampled 11/26/19 15:52 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 15:52	MDL; +1,1 DFA

WORK ORDER

T194108

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194108-30 SB15E2-20 [Air] Sampled 11/26/19 16:10 (GMT-08:00) Pacific Time (US &				
TO-15	12/06/19 15:00	5	12/26/19 16:10	MDL; +1,1 DFA

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

10 December 2019

David Horrell
Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana, CA 92705
RE: Whittram Fontana

Enclosed are the results of analyses for samples received by the laboratory on 12/02/19 13:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB15W2-5	T194136-01	Air	11/27/19 14:13	12/02/19 13:10
SB15W2-15	T194136-02	Air	11/27/19 14:12	12/02/19 13:10
SB15E1-5	T194136-03	Air	11/27/19 15:29	12/02/19 13:10
SB15E1-15	T194136-04	Air	11/27/19 15:30	12/02/19 13:10
SB15N1-5	T194136-05	Air	11/27/19 14:53	12/02/19 13:10
SB15N1-15	T194136-06	Air	11/27/19 15:09	12/02/19 13:10
SB15N1-25	T194136-07	Air	11/27/19 14:52	12/02/19 13:10
SB15N2-5	T194136-08	Air	11/27/19 15:53	12/02/19 13:10
SB15N2-15	T194136-09	Air	11/27/19 16:02	12/02/19 13:10
SB15N2-25	T194136-10	Air	11/27/19 15:54	12/02/19 13:10

SunStar Laboratories, Inc.

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.

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

DETECTIONS SUMMARY

Sample ID: SB15W2-5

Laboratory ID: T194136-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	73	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	7.8	13	ug/m ³ Air	TO-15	J
1,3,5-Trimethylbenzene	15	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	27	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	13	15	ug/m ³ Air	TO-15	J
Toluene	34	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	40	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	130	8.8	ug/m ³ Air	TO-15	
o-Xylene	51	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15W2-15

Laboratory ID: T194136-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	190	12	ug/m ³ Air	TO-15	
Tetrachloroethene	9.3	6.9	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	63	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	220	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	43	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	8.8	42	ug/m ³ Air	TO-15	J
Toluene	44	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	99	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	430	8.8	ug/m ³ Air	TO-15	
o-Xylene	160	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15E1-5

Laboratory ID: T194136-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	19	12	ug/m ³ Air	TO-15	
Tetrachloroethene	8.1	6.9	ug/m ³ Air	TO-15	

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

Sample ID: SB15E1-5

Laboratory ID: T194136-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
1,3,5-Trimethylbenzene	12	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	33	5.0	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	1.9	42	ug/m ³ Air	TO-15	J
Toluene	290	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	5.2	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	29	8.8	ug/m ³ Air	TO-15	
o-Xylene	10	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15E1-15

Laboratory ID: T194136-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	73	12	ug/m ³ Air	TO-15	
Chloroform	11	5.0	ug/m ³ Air	TO-15	
Tetrachloroethene	510	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	14	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	39	15	ug/m ³ Air	TO-15	
Toluene	31	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.6	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	6.9	8.8	ug/m ³ Air	TO-15	J
o-Xylene	2.2	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB15N1-5

Laboratory ID: T194136-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	6.8	6.9	ug/m ³ Air	TO-15	J
Trichlorofluoromethane	7.4	5.7	ug/m ³ Air	TO-15	
Toluene	5.0	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	4.0	8.8	ug/m ³ Air	TO-15	J
o-Xylene	1.9	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB15N1-15

Laboratory ID: T194136-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	42	12	ug/m ³ Air	TO-15	

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Sample ID: SB15N1-15

Laboratory ID: T194136-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Isopropyl alcohol	14	13	ug/m ³ Air	TO-15	
Tetrachloroethene	13	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	11	5.7	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	6.8	5.0	ug/m ³ Air	TO-15	
Toluene	260	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	1.8	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	11	8.8	ug/m ³ Air	TO-15	
o-Xylene	3.6	4.4	ug/m ³ Air	TO-15	J

Sample ID: SB15N1-25

Laboratory ID: T194136-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	52	12	ug/m ³ Air	TO-15	
Tetrachloroethene	45	6.9	ug/m ³ Air	TO-15	
Trichlorofluoromethane	10	5.7	ug/m ³ Air	TO-15	
2-Butanone (MEK)	27	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	2.2	42	ug/m ³ Air	TO-15	J

Sample ID: SB15N2-5

Laboratory ID: T194136-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	36	12	ug/m ³ Air	TO-15	
Tetrachloroethene	11	6.9	ug/m ³ Air	TO-15	
1,3,5-Trimethylbenzene	89	5.0	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	230	5.0	ug/m ³ Air	TO-15	
Toluene	130	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	50	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	260	8.8	ug/m ³ Air	TO-15	
o-Xylene	81	4.4	ug/m ³ Air	TO-15	

Sample ID: SB15N2-15

Laboratory ID: T194136-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
4-Ethyltoluene	180	250	ug/m ³ Air	TO-15	J

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Sample ID: SB15N2-15

Laboratory ID: T194136-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
1,2,4-Trimethylbenzene	130	250	ug/m ³ Air	TO-15	J
Toluene	390	190	ug/m ³ Air	TO-15	
Ethylbenzene	91	220	ug/m ³ Air	TO-15	J
m,p-Xylene	320	220	ug/m ³ Air	TO-15	
o-Xylene	62	220	ug/m ³ Air	TO-15	J

Sample ID: SB15N2-25

Laboratory ID: T194136-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	61	12	ug/m ³ Air	TO-15	
Tetrachloroethene	22	6.9	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	3.0	5.0	ug/m ³ Air	TO-15	J
2-Butanone (MEK)	27	15	ug/m ³ Air	TO-15	
Methyl isobutyl ketone	6.1	42	ug/m ³ Air	TO-15	J
Toluene	14	3.8	ug/m ³ Air	TO-15	
Ethylbenzene	3.9	4.4	ug/m ³ Air	TO-15	J
m,p-Xylene	13	8.8	ug/m ³ Air	TO-15	
o-Xylene	5.2	4.4	ug/m ³ Air	TO-15	



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15W2-5
T194136-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9120428	12/04/19	12/09/19	TO-15	
Acetone	73	0.49	12	"	"	"	"	"	"	
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"	
Isopropyl alcohol	7.8	0.55	13	"	"	"	"	"	"	J
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"	
Bromoform	ND	0.23	11	"	"	"	"	"	"	
Bromomethane	ND	0.55	20	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"	
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"	
Chloroform	ND	0.15	5.0	"	"	"	"	"	"	
Chloromethane	ND	0.46	11	"	"	"	"	"	"	
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"	
Heptane	ND	0.15	4.2	"	"	"	"	"	"	
Hexane	ND	0.43	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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SB15W2-5
T194136-01(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.52	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	15	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	27	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	13	0.45	15	"	"	"	"	"	"	J
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	34	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	40	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	130	0.20	8.8	"	"	"	"	"	"	
o-Xylene	51	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene

98.9 %

40-160

"

"

"

"



Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15W2-15
T194136-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.62	9120428	12/04/19	12/09/19	TO-15
Acetone	190	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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SB15W2-15
T194136-02(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.62	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	9.3	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	63	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	220	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	43	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	8.8	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	44	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	99	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	430	0.20	8.8	"	"	"	"	"	"	
o-Xylene	160	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 99.4 % 40-160 " " " "



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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

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SB15E1-5
T194136-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9120428	12/04/19	12/09/19	TO-15
Acetone	19	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15E1-5
T194136-03(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.52	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	8.1	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	33	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	1.9	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	290	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	5.2	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	29	0.20	8.8	"	"	"	"	"	"	
o-Xylene	10	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 97.3 % 40-160 " " " "

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15E1-15
T194136-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.98	9120428	12/04/19	12/09/19	TO-15
Acetone	73	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	11	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15E1-15
T194136-04(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.98	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	510	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	14	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	39	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	31	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.6	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	6.9	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	2.2	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

97.7 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
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Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N1-5
T194136-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.55	9120428	12/04/19	12/09/19	TO-15
Acetone	ND	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N1-5
T194136-05(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.55	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	6.8	0.21	6.9	"	"	"	"	"	"	J
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	7.4	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	5.0	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	4.0	0.20	8.8	"	"	"	"	"	"	J
o-Xylene	1.9	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

90.5 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N1-15
T194136-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9120428	12/04/19	12/09/19	TO-15
Acetone	42	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	14	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N1-15
T194136-06(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.52	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	13	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	11	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	6.8	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"	
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	260	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	1.8	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	11	0.20	8.8	"	"	"	"	"	"	
o-Xylene	3.6	0.085	4.4	"	"	"	"	"	"	J

Surrogate: 4-Bromofluorobenzene

94.3 %

40-160

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SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N1-25
T194136-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m³ Air	1.52	9120428	12/04/19	12/09/19	TO-15
Acetone	52	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N1-25
T194136-07(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.52	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	45	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	10	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.33	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	27	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	2.2	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	ND	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	0.14	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	0.20	8.8	"	"	"	"	"	"	
o-Xylene	ND	0.085	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene			95.9 %	40-160		"	"	"	"	

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N2-5
T194136-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.56	9120428	12/04/19	12/09/19	TO-15
Acetone	36	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N2-5
T194136-08(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m ³ Air	1.56	9120428	12/04/19	12/09/19	TO-15
Styrene	ND	0.19	4.3	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"
Tetrachloroethene	11	0.21	6.9	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"
1,3,5-Trimethylbenzene	89	0.49	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	230	0.33	5.0	"	"	"	"	"	"
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"
2-Butanone (MEK)	ND	0.45	15	"	"	"	"	"	"
Methyl isobutyl ketone	ND	0.14	42	"	"	"	"	"	"
Benzene	ND	0.14	3.3	"	"	"	"	"	"
Toluene	130	0.14	3.8	"	"	"	"	"	"
Ethylbenzene	50	0.14	4.4	"	"	"	"	"	"
m,p-Xylene	260	0.20	8.8	"	"	"	"	"	"
o-Xylene	81	0.085	4.4	"	"	"	"	"	"

Surrogate: 4-Bromofluorobenzene

99.0 %

40-160

"

"

"

"





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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N2-15
T194136-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
1,1-Difluoroethane (Freon 152)	ND	91	270	ug/m ³ Air	1.54	9120428	12/04/19	12/04/19	TO-15	
Acetone	ND	17	120	"	"	"	"	"	"	
1,3-Butadiene	ND	8.3	110	"	"	"	"	"	"	
Carbon Disulfide	ND	11	160	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	20	390	"	"	"	"	"	"	
Isopropyl alcohol	ND	22	130	"	"	"	"	"	"	
Bromodichloromethane	ND	15	340	"	"	"	"	"	"	
Bromoform	ND	26	530	"	"	"	"	"	"	
Bromomethane	ND	15	200	"	"	"	"	"	"	
Carbon tetrachloride	ND	12	320	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	230	"	"	"	"	"	"	
Chloroethane	ND	11	130	"	"	"	"	"	"	
Chloroform	ND	9.4	250	"	"	"	"	"	"	
Chloromethane	ND	7.4	110	"	"	"	"	"	"	
Cyclohexane	ND	12	170	"	"	"	"	"	"	
Heptane	ND	21	210	"	"	"	"	"	"	
Hexane	ND	10	180	"	"	"	"	"	"	
Dibromochloromethane	ND	24	430	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	13	390	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	18	310	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	310	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	22	310	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	15	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	210	"	"	"	"	"	"	
1,2-Dichloroethane	ND	14	210	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.5	200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	9.7	200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	13	200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	24	240	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	13	230	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.3	230	"	"	"	"	"	"	
4-Ethyltoluene	180	15	250	"	"	"	"	"	"	J

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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N2-15
T194136-09(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15										TO-14
Methylene chloride	ND	17	180	ug/m ³ Air	1.54	9120428	12/04/19	12/04/19	TO-15	
Styrene	ND	13	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	19	350	"	"	"	"	"	"	
Tetrahydrofuran	ND	15	150	"	"	"	"	"	"	
Tetrachloroethene	ND	19	350	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	12	280	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	280	"	"	"	"	"	"	
Trichloroethene	ND	8.7	270	"	"	"	"	"	"	
Trichlorofluoromethane	ND	13	290	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	15	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	130	15	250	"	"	"	"	"	"	J
Vinyl acetate	ND	9.7	180	"	"	"	"	"	"	
Vinyl chloride	ND	9.6	130	"	"	"	"	"	"	
1,4-Dioxane	ND	59	180	"	"	"	"	"	"	
2-Butanone (MEK)	ND	11	150	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	210	"	"	"	"	"	"	
Benzene	ND	4.9	160	"	"	"	"	"	"	
Toluene	390	11	190	"	"	"	"	"	"	
Ethylbenzene	91	10	220	"	"	"	"	"	"	J
m,p-Xylene	320	15	220	"	"	"	"	"	"	
o-Xylene	62	9.3	220	"	"	"	"	"	"	J

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N2-25
T194136-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

1,1-Difluoroethane (Freon 152)	ND	3.3	27	ug/m ³ Air	1.52	9120428	12/04/19	12/09/19	TO-15
Acetone	61	0.49	12	"	"	"	"	"	"
1,3-Butadiene	ND	0.29	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	0.22	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	0.55	13	"	"	"	"	"	"
Bromodichloromethane	ND	0.16	6.8	"	"	"	"	"	"
Bromoform	ND	0.23	11	"	"	"	"	"	"
Bromomethane	ND	0.55	20	"	"	"	"	"	"
Carbon tetrachloride	ND	0.055	6.4	"	"	"	"	"	"
Chlorobenzene	ND	0.098	4.7	"	"	"	"	"	"
Chloroethane	ND	0.35	2.7	"	"	"	"	"	"
Chloroform	ND	0.15	5.0	"	"	"	"	"	"
Chloromethane	ND	0.46	11	"	"	"	"	"	"
Cyclohexane	ND	0.16	3.5	"	"	"	"	"	"
Heptane	ND	0.15	4.2	"	"	"	"	"	"
Hexane	ND	0.43	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	0.26	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.36	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.43	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.44	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.18	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	0.23	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.16	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.28	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	0.25	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	0.22	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.13	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	0.25	5.0	"	"	"	"	"	"

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
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Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

SB15N2-25
T194136-10(Air)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	0.079	18	ug/m³ Air	1.52	9120428	12/04/19	12/09/19	TO-15	
Styrene	ND	0.19	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	0.25	3.0	"	"	"	"	"	"	
Tetrachloroethene	22	0.21	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.19	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.24	5.6	"	"	"	"	"	"	
Trichloroethene	ND	0.21	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.24	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.49	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.0	0.33	5.0	"	"	"	"	"	"	J
Vinyl acetate	ND	0.18	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	0.052	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	0.97	18	"	"	"	"	"	"	
2-Butanone (MEK)	27	0.45	15	"	"	"	"	"	"	
Methyl isobutyl ketone	6.1	0.14	42	"	"	"	"	"	"	J
Benzene	ND	0.14	3.3	"	"	"	"	"	"	
Toluene	14	0.14	3.8	"	"	"	"	"	"	
Ethylbenzene	3.9	0.14	4.4	"	"	"	"	"	"	J
m,p-Xylene	13	0.20	8.8	"	"	"	"	"	"	
o-Xylene	5.2	0.085	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 97.5 % 40-160 " " " "

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1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120428 - Canister Analysis

Blank (9120428-BLK1)

Prepared: 12/04/19 Analyzed: 12/06/19

<i>Surrogate: 4-Bromofluorobenzene</i>	256			ug/m ³ Air	362		70.8	40-160			
Acetone	ND	0.49	12	"							
1,3-Butadiene	ND	0.29	4.5	"							
Carbon Disulfide	ND	0.22	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"							
Isopropyl alcohol	ND	0.55	13	"							
Bromodichloromethane	ND	0.16	6.8	"							
Bromoform	ND	0.23	11	"							
Bromomethane	ND	0.55	20	"							
Carbon tetrachloride	ND	0.055	6.4	"							
Chlorobenzene	ND	0.098	4.7	"							
Chloroethane	ND	0.35	2.7	"							
Chloroform	ND	0.15	5.0	"							
Chloromethane	ND	0.46	11	"							
Cyclohexane	ND	0.16	3.5	"							
Heptane	ND	0.15	4.2	"							
Hexane	ND	0.43	3.6	"							
Dibromochloromethane	ND	0.26	8.7	"							
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"							
1,2-Dichlorobenzene	ND	0.36	31	"							
1,3-Dichlorobenzene	ND	0.43	31	"							
1,4-Dichlorobenzene	ND	0.44	31	"							
Dichlorodifluoromethane	ND	0.18	5.0	"							
1,1-Dichloroethane	ND	0.23	4.1	"							
1,2-Dichloroethane	ND	0.16	4.1	"							
1,1-Dichloroethene	ND	0.28	4.0	"							

SunStar Laboratories, Inc.

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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120428 - Canister Analysis

Blank (9120428-BLK1)

Prepared: 12/04/19 Analyzed: 12/06/19

cis-1,2-Dichloroethene	ND	0.25	4.0	ug/m³ Air
trans-1,2-Dichloroethene	ND	0.22	4.0	"
1,2-Dichloropropane	ND	0.13	4.7	"
cis-1,3-Dichloropropene	ND	0.21	4.6	"
trans-1,3-Dichloropropene	ND	0.21	4.6	"
4-Ethyltoluene	ND	0.25	5.0	"
Methylene chloride	ND	0.079	18	"
Styrene	ND	0.19	4.3	"
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"
Tetrahydrofuran	ND	0.25	3.0	"
Tetrachloroethene	ND	0.21	6.9	"
1,1,2-Trichloroethane	ND	0.19	5.6	"
1,1,1-Trichloroethane	ND	0.24	5.6	"
Trichloroethene	ND	0.21	5.5	"
Trichlorofluoromethane	ND	0.24	5.7	"
1,3,5-Trimethylbenzene	ND	0.49	5.0	"
1,2,4-Trimethylbenzene	ND	0.33	5.0	"
Vinyl acetate	ND	0.18	3.6	"
Vinyl chloride	ND	0.052	2.6	"
1,4-Dioxane	ND	0.97	18	"
2-Butanone (MEK)	ND	0.45	15	"
Methyl isobutyl ketone	ND	0.14	42	"
Benzene	ND	0.14	3.3	"
Toluene	ND	0.14	3.8	"
Ethylbenzene	ND	0.14	4.4	"
m,p-Xylene	ND	0.20	8.8	"
o-Xylene	ND	0.085	4.4	"

SunStar Laboratories, Inc.

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.





25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120428 - Canister Analysis

Duplicate (9120428-DUP1)

Source: T194115-01

Prepared: 12/04/19 Analyzed: 12/06/19

<i>Surrogate: 4-Bromofluorobenzene</i>	345			ug/m ³ Air	362		95.2	40-160			
Acetone	115	0.49	12	"		115			0.292	30	
1,3-Butadiene	ND	0.29	4.5	"		ND				30	
Carbon Disulfide	ND	0.22	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	0.26	7.7	"		ND				30	
Isopropyl alcohol	ND	0.55	13	"		ND				30	
Bromodichloromethane	ND	0.16	6.8	"		ND				30	
Bromoform	ND	0.23	11	"		ND				30	
Bromomethane	ND	0.55	20	"		ND				30	
Carbon tetrachloride	ND	0.055	6.4	"		ND				30	
Chlorobenzene	ND	0.098	4.7	"		ND				30	
Chloroethane	ND	0.35	2.7	"		ND				30	
Chloroform	4.07	0.15	5.0	"		4.35			6.56	30	J
Chloromethane	ND	0.46	11	"		ND				30	
Cyclohexane	ND	0.16	3.5	"		ND				30	
Heptane	ND	0.15	4.2	"		ND				30	
Hexane	ND	0.43	3.6	"		ND				30	
Dibromochloromethane	ND	0.26	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	0.18	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	0.36	31	"		ND				30	
1,3-Dichlorobenzene	ND	0.43	31	"		ND				30	
1,4-Dichlorobenzene	ND	0.44	31	"		ND				30	
Dichlorodifluoromethane	ND	0.18	5.0	"		ND				30	
1,1-Dichloroethane	ND	0.23	4.1	"		ND				30	
1,2-Dichloroethane	ND	0.16	4.1	"		ND				30	
1,1-Dichloroethene	ND	0.28	4.0	"		ND				30	

SunStar Laboratories, Inc.

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9120428 - Canister Analysis

Duplicate (9120428-DUP1)		Source: T194115-01			Prepared: 12/04/19		Analyzed: 12/06/19				
cis-1,2-Dichloroethene	8.58	0.25	4.0	ug/m³ Air		8.86		3.22	30		
trans-1,2-Dichloroethene	ND	0.22	4.0	"		ND			30		
1,2-Dichloropropane	ND	0.13	4.7	"		ND			30		
cis-1,3-Dichloropropene	ND	0.21	4.6	"		ND			30		
trans-1,3-Dichloropropene	ND	0.21	4.6	"		ND			30		
4-Ethyltoluene	ND	0.25	5.0	"		ND			30		
Methylene chloride	ND	0.079	18	"		ND			30		
Styrene	ND	0.19	4.3	"		ND			30		
1,1,2,2-Tetrachloroethane	ND	0.54	7.0	"		ND			30		
Tetrahydrofuran	3.75	0.25	3.0	"		3.96		5.41	30		
Tetrachloroethene	47.4	0.21	6.9	"		51.5		8.34	30		
1,1,2-Trichloroethane	ND	0.19	5.6	"		ND			30		
1,1,1-Trichloroethane	ND	0.24	5.6	"		ND			30		
Trichloroethene	4.86	0.21	5.5	"		4.71		3.17	30		J
Trichlorofluoromethane	ND	0.24	5.7	"		ND			30		
1,3,5-Trimethylbenzene	ND	0.49	5.0	"		ND			30		
1,2,4-Trimethylbenzene	ND	0.33	5.0	"		ND			30		
Vinyl acetate	ND	0.18	3.6	"		ND			30		
Vinyl chloride	ND	0.052	2.6	"		ND			30		
1,4-Dioxane	ND	0.97	18	"		ND			30		
2-Butanone (MEK)	19.8	0.45	15	"		20.0		1.26	30		
Methyl isobutyl ketone	ND	0.14	42	"		ND			30		
Benzene	ND	0.14	3.3	"		ND			30		
Toluene	2.08	0.14	3.8	"		1.97		5.26	30		J
Ethylbenzene	ND	0.14	4.4	"		ND			30		
m,p-Xylene	2.09	0.20	8.8	"		1.97		6.06	30		J
o-Xylene	ND	0.085	4.4	"		ND			30		

SunStar Laboratories, Inc.

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Lake Forest, California 92630
949.297.5020 Phone
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Partner Engineering and Science-Santa Ana
1761 E. Garry Ave.
Santa Ana CA, 92705

Project: Whittram Fontana
Project Number: SM19-259094
Project Manager: David Horrell

Reported:
12/10/19 14:29

Notes and Definitions

TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.

J Detected but below the Standard Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record



SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630

949-297-5020

Client: Partner ESI
Address: 1761 E. Garry Ave., Santa Ana, CA
Phone: 832-265-7187 Fax: _____
Project Manager: David Horrell

Date: 11/27/19 Page: 1 Of 1
Project Name: Whittram Fontana
Collector: DH Client Project #: SM19-259094
Batch #: T194136 T194136 EDF #: _____

[illegible]

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

COCAL 180449



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:

TP4136

Client Name:

PARTNER - SANTA ANA

Project:

WHITTRAM FONTANA

Delivered by:

☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by:

Date/Time Courier
Received:

Lab Received by:

SUNNY

Date/Time Lab
Received:

12-2-19 / 13:10

Total number of coolers received:

0

Thermometer ID:

Calibration Due: 6/27/20

Temperature: Cooler #1	-	°C +/- the CF (+ 1.2°C)	=	-	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (+ 1.2°C)	=		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (+ 1.2°C)	=		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)			Within criteria?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If NO:					
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet			
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet			

Custody seals intact on cooler/sample

☐ Yes ☐ No* ☒ N/A

Sample containers intact

☒ Yes ☐ No*

Sample labels match Chain of Custody IDs

☒ Yes ☐ No*

Total number of containers received match COC

☒ Yes ☐ No*

Proper containers received for analyses requested on COC

☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested

☐ Yes ☐ No* ☒ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times

☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date:

SL 12-2-19

Comments:



Project Name: SM19-259094				Rebecca	
Company: PARTNER ESI					
Name: DAVID HORRELL					
Item	Quantity	Unit			
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 120/CS					
1 Liter Poly 36/CS					
500 ml Poly 60/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box					
	(1) Methanol VOA 72/box				
	(1)Syringe 50/pack				
Lock-N-Load Handle 1/ea					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
	Volume of Summa	# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				
	1L	81	CHARGE - 10	18	0
	3L				
	6L				
Purge cans					
Nitrogen cans		16	CHARGE - 3	0	0
Ind. Certified Summa Cannisters	1L				
	3L				
	6L				
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					PB
Manifolds: Inst. Sampler, Variable Sampler		25-MANIFOLDS (150)			CHARGE - 21
Swagelok Fittings: Nuts/Ferrules, Ts					
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves,Silicon Tape, etc.		81-SHUT IN TEST SETUPS			CHARGE - 29
Prepared By: SL		Date: 11-19-19			
Reviewed By:		Date:			
Comments:					

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 12/2/2019

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0257	1000cc: 1000cc Summa	0257	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0398	1000cc: 1000cc Summa	0398	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0720	1000cc: 1000cc Summa	0720	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0722	1000cc: 1000cc Summa	0722	Sunstar Labs, Lake Forest Air Lab	Partner-David	David Horrell
0753	1000cc: 1000cc Summa	0753	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0760	1000cc: 1000cc Summa	0760	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0764	1000cc: 1000cc Summa	0764	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0773	1000cc: 1000cc Summa	0773	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0779	1000cc: 1000cc Summa	0779	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0780	1000cc: 1000cc Summa	0780	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0784	1000cc: 1000cc Summa	0784	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0799	1000cc: 1000cc Summa	0799	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0821	1000cc: 1000cc Summa	0821	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0823	1000cc: 1000cc Summa	0823	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0826	1000cc: 1000cc Summa	0826	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0835	1000cc: 1000cc Summa	0835	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0842	1000cc: 1000cc Summa	0842	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 12/2/2019

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0856	1000cc: 1000cc Summa	0856	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0863	1000cc: 1000cc Summa	0863	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0867	1000cc: 1000cc Summa	0867	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
0877	1000cc: 1000cc Summa	0877	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2085	Chameleon-150: Chameleon 150 Manifold	2085	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2089	Chameleon-150: Chameleon 150 Manifold	2089	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2095	Chameleon-150: Chameleon 150 Manifold	2095	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2096	Chameleon-150: Chameleon 150 Manifold	2096	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2099	Chameleon-150: Chameleon 150 Manifold	2099	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2100	Chameleon-150: Chameleon 150 Manifold	2100	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2101	Chameleon-150: Chameleon 150 Manifold	2101	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2108	Chameleon-150: Chameleon 150 Manifold	2108	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2113	Chameleon-150: Chameleon 150 Manifold	2113	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2119	Chameleon-150: Chameleon 150 Manifold	2119	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2122	Chameleon-150: Chameleon 150 Manifold	2122	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2123	Chameleon-150: Chameleon 150 Manifold	2123	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2130	Chameleon-150: Chameleon 150 Manifold	2130	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 12/2/2019

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
2133	Chameleon-150: Chameleon 150 Manifold	2133	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2134	Chameleon-150: Chameleon 150 Manifold	2134	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2135	Chameleon-150: Chameleon 150 Manifold	2135	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2136	Chameleon-150: Chameleon 150 Manifold	2136	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2137	Chameleon-150: Chameleon 150 Manifold	2137	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2143	Chameleon-150: Chameleon 150 Manifold	2143	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2145	Chameleon-150: Chameleon 150 Manifold	2145	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2149	Chameleon-150: Chameleon 150 Manifold	2149	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
2151	Chameleon-150: Chameleon 150 Manifold	2151	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell
609	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
650	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
660	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
661	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
665	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
669	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
681	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
699	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell
714	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Partner-David	David Horrell

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 12/2/2019

User Name: Marteski, Dan

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0734	1000cc: 1000cc Summa	0734	Sunstar Labs, SunStar Labs - South	Partner-David	David Horrell

--

WORK ORDER

T194136

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Report To:

Partner Engineering and Science-Santa Ana
David Horrell
1761 E. Garry Ave.
Santa Ana, CA 92705

Date Due: 12/09/19 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 12/02/19 13:10

Logged In By: Sunny Lounethone

Date Logged In: 12/02/19 16:53

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T194136-01 SB15W2-5 [Air] Sampled 11/27/19 14:13 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 14:13	MDL; +1,1 DFA
T194136-02 SB15W2-15 [Air] Sampled 11/27/19 14:12 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 14:12	MDL; +1,1 DFA
T194136-03 SB15E1-5 [Air] Sampled 11/27/19 15:29 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 15:29	MDL; +1,1 DFA
T194136-04 SB15E1-15 [Air] Sampled 11/27/19 15:30 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 15:30	MDL; +1,1 DFA
T194136-05 SB15N1-5 [Air] Sampled 11/27/19 14:53 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 14:53	MDL; +1,1 DFA
T194136-06 SB15N1-15 [Air] Sampled 11/27/19 15:09 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 15:09	MDL; +1,1 DFA
T194136-07 SB15N1-25 [Air] Sampled 11/27/19 14:52 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 14:52	MDL; +1,1 DFA

WORK ORDER

T194136

Client: Partner Engineering and Science-Santa Ana
Project: Whittram Fontana

Project Manager: Mike Jaroudi
Project Number: SM19-259094

Analysis	Due	TAT	Expires	Comments
T194136-08 SB15N2-5 [Air] Sampled 11/27/19 15:53 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 15:53	MDL; +1,1 DFA
T194136-09 SB15N2-15 [Air] Sampled 11/27/19 16:02 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 16:02	MDL; +1,1 DFA
T194136-10 SB15N2-25 [Air] Sampled 11/27/19 15:54 (GMT-08:00) Pacific Time (US &				
TO-15	12/09/19 15:00	5	12/27/19 15:54	MDL; +1,1 DFA

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