



# PHASE I ENVIRONMENTAL SITE ASSESSMENT

Of a

**AGRICULTURAL PROPERTY  
TRACT 36647 AND 36648  
PERRIS, CALIFORNIA 92571**

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E-S Project #P14542-60A

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<b>PHASE I ESA EXECUTIVE SUMMARY OVERVIEW</b> <b>Residential/Agricultural Property</b> <b>21330 Waite Street; Wildomar, CA</b>				
<b>Section Topic</b>	<b>No RECs Identified</b>	<b>Non-REC Issue Identified</b>	<b>RECs Identified</b>	<b>Comments</b>
Historical Usage	✓			
Regulatory Database Review (on-site)	✓			
Regulatory Database Review (nearby sites)	✓			
On-site Operations	✓			
Haz. Mat. Handling	✓			
Haz. Waste Handling	✓			
USTs/ASTs	✓			
ACMs	✓			
LBP	✓			
PCBs	✓			
Radon	✓			
Other	✓			

## **SECTION I.**

### **EXECUTIVE SUMMARY & RECOMMENDATIONS**

Earth-Strata, Inc. (E-S) was retained by Mission Pacific Land Company to perform a Phase I Environmental Site Assessment (Phase I ESA or Assessment) of a site located on the west side of Evans Road, between Harvey Knox Road to the north and Ramona Expressway to the south, Perris, California. At the time of the April 16, 2014 site visit, the subject property consisted of several rural agriculturally developed parcels, totaling approximately 80 Acres. The subject property is located on the west side of Evans Road, between Harvey Knox Road to the north and Ramona Expressway to the south, within a rural residential and agriculture use area.

This Phase I ESA was performed in accordance with the scope and limitations of the *American Society for Testing and Materials (ASTM) Phase I ESA Standard E1527-2013* (equivalent to the USEPA's All Appropriate Inquiry [AAI] Standard), the scope of work defined in this report, as well as the signed service agreement. The following summarizes E-S's independent conclusions and best professional judgment based upon information available to us during the course of this Assessment.

During the site visit, the E-S Assessor was not accompanied by anyone because the site is undeveloped. Due to the site being undeveloped and vacant the "Key Site Manager" was identified as Mission Pacific Land Company.

As defined by ASTM E1527-2005, the Key Site Manager is that person having good knowledge of the uses and physical characteristics of the subject property, and in a position to provide reasonably accurate information for the Key Site Manager Environmental Questionnaire. The questioner was performed by Mission Pacific Land Company and can be found in appendix F.

Based upon the limited site reconnaissance, historical review, regulatory records review, and other information detailed within this report, this Assessment did not identify any evidence of ASTM Recognized Environmental Conditions (RECs) or other issues in connection with the subject property.

An Executive Summary Overview is also included in the previous section. However, when making any decisions concerning the findings of this Assessment, please also refer to the entirety of this report, which may present other items of interest that are not discussed in the Executive Summary, or further details regarding the above items. In addition, please refer to the Data Gaps section (IV-H) of this report regarding information that may have been unavailable or incomplete which may have a bearing on the findings or usage of this report.

## **SECTION II.**

### **SCOPE OF WORK & LIMITATIONS**

#### **PURPOSE**

The primary goal of this Phase I Environmental Site Assessment is to assist the client in satisfying one of the requirements to qualify for the “innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability” (42 U.S.C. § 9601 et. seq.). Qualification for these limitations is predicated on the assumption that “...the defendant must have undertaken, at the time of acquisition, all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice in an effort to minimize liability....” The secondary goal of this Assessment is to provide information that will assist in evaluating the risk of potential significant value impairment of the security interest due to environmental impacts.

#### **PROTOCOL**

The *American Society for Testing and Materials (ASTM) Phase I ESA Standard E1527-2013* is the most current method used in attempting to perform the due diligence required to achieve the above purpose. The E1527-2013 Standard was created by the ASTM “...in an effort to define good commercial and customary practice in the United States of America for conducting an environmental site assessment....” and is equivalent to the USEPA’s All Appropriate Inquiry [AAI] Standard issued November 1, 2013. The ASTM Standard E1527-2013 is the revised E1527-2005 and is intended to identify recognized environmental conditions (RECs) in connection with a given property. The term recognized environmental conditions is not intended to include “*de minimus*” conditions that generally do not present a material risk of harm or that are unlikely to be the subject of enforcement actions by governmental agencies. Other conditions or issues that are beyond the ASTM scope may also be discussed in this report, as detailed within each section.

#### **SCOPE OF WORK**

Utilizing ASTM Standard E1527-2013, as well as the scope of work discussed below and in the work authorization document, this Assessment involved: A site reconnaissance of the subject property, limited observations of adjoining properties, a review of the historical usage of the subject property, and a review of relevant documentation provided by various public and private sources (including the client and/or owner of the subject property) to identify conditions indicative of releases or threatened releases of hazardous substances, as defined in CERCLA Section 101 (14) U.S.C. § 312.1(c) evaluate the presence or likely existence of:

- ◆ Recognized environmental conditions, specified by ASTM E1527-2013 as: “the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products

into structures on the property or into the ground, groundwater or surface water of the property.”

- ◆ A brief evaluation and assessment of potential environmental issues which may not rise to the level of recognized environmental conditions, such as: obviously improper hazardous material or waste handling, suspect asbestos-containing materials, lead-based paint, polychlorinated bi-phenyls, and radon gas.

## **LIMITATIONS**

As discussed in ASTM E1527-2013, no Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a subject property. This investigation is simply intended to reduce uncertainty within reasonable limits of time and cost.

Refer to Section VI-A for a brief discussion of some (but not necessarily all) specific limitations to E-S’s subject property observations at the time of the site visit. The observations contained within this Assessment are based upon conditions readily observable during the site visit. These observations are typically unable to address conditions of areas not inspected, hidden from view, subsurface soil, groundwater, underground storage tanks, neighboring properties, and the like, unless specifically mentioned. It is not the purpose of this Assessment to determine the actual presence, or degree or extent of contamination (if any) at the subject property. Unless specifically noted within this report, this Assessment does not include observations, testing, coring, or sampling analysis to address groundwater, soil, or extraneous materials contamination (including mold, bio-hazardous or radiologic issues) in or on the subject property. E-S also is not providing geological interpretations or recommendations. Potential Vapor Intrusion issues from on or off-site sources are not evaluated. Electromagnetic issues (e.g., proximity to high-voltage power lines) are also not included. This Assessment does not include or address reasonably ascertainable environmental liens recorded against the subject property, unless stated.

E-S makes no warranties or guarantees as to the accuracy or completeness of information obtained from or compiled by others. Information may also exist which was beyond the scope of this investigation, or was not provided to E-S that may have an impact on the conclusions of this Assessment. This Assessment does not attempt to address past or forecast future site conditions. E-S also cannot forecast or be responsible for changes in regulatory guidelines or protocols, industry standards or the like, which may affect the conclusions and/or future usage of this report.

This Assessment has been conducted and prepared in accordance with generally accepted practices and procedures exercised by reputable professionals under similar circumstances. E-S makes no other warranties or guarantees, either expressed or implied, as to the findings, opinions, or recommendations contained in the report, or as to the existence or non-existence of RECs or other issues at the subject property.

### **SECTION III.**

#### **GENERAL SITE DESCRIPTION**

Earth-Strata, Inc. (E-S) was retained by Mission Pacific Land Company to perform a Phase I Environmental Site Assessment (Phase I ESA or Assessment) of a site located on the west side of Evans Road, between Harvey Knox Road to the north and Ramona Expressway to the south, Perris, California. At the time of the April 16, 2014 site visit, the subject property consisted of several agriculturally developed rural parcels totaling approximately 80 Acres. The property can be accessed by, Ramona Expressway and Evans Road. During the site visit, the properties are vacant and tilled, with construction debris at various locations around the perimeter. Power lines and water mains run along Evans Road on the east side. One large storm water conveyance system is located on the east side approximately half way between properties. Residential building are located adjacent to the north and across Evans Road to the east.

The subject property is located at a site located at the west side of Evans Road, between Harvey Knox Road to the north and Ramona Expressway to the south, Perris, California, within a rural residential area. The subject property location is shown on various Figures in the appendices.

#### **Exceptions to ASTM E 1527-05**

A key site manager was not interviewed because the subject site is undeveloped, non-usage of the site was established through other data sources in the report, regulatory violations were not identified for the subject site or the adjoining properties in the EDR database, and recognized environmental conditions were not observed during the visual survey. A local agency official was not interviewed because regulatory violations were not identified for the subject site or the adjoining properties in the EDR database.

#### **A. CLIENT PROVIDED INFORMATION**

As discussed in ASTM E1527-2013, the user (e.g., Client) is required to perform certain tasks or provide certain information to E-S in order to identify potential RECs. Tasks or information to be provided by the Client include: 1) review of judicial and title records for environmental liens, environmental deed restrictions or activity and use limitations (AULs); 2) provide specialized, actual, commonly known or reasonably ascertainable knowledge regarding the property; and, 3) identify reasons for a significantly lower purchase price (if applicable).

The Client has not provided or reported to E-S any information which indicates the subject property is being sold, purchased or valued at a significantly reduced price due to outstanding environmental issues. Nor has the Client or Key Site Manager provided or reported to E-S information indicating a specific knowledge of RECs, historic RECs, Environmental Liens, Activity and Use Limitations, or Environmental Deed Restrictions related to the subject property.

However, E-S was not privy to the original purchase price versus valuation metrics of the property by the current owner/seller, and therefore cannot evaluate this parameter. The Client/User of this report may wish to perform such an evaluation.

## **B. ADJOINING AND ADJACENT PROPERTIES**

As discussed in ASTM E1527-2013, an adjoining property is any real property whose border is contiguous or partially contiguous with the subject property, or would be if the properties were not separated by a roadway, street or other public thoroughfare. For the purposes of this report, an adjacent property is any real property located within approximately one block or less of the subject property's border.

Specifically, the subject property is bordered by the following:

- North: Immediately by single family residential properties.
- East: Immediately by one vacant parcel and residential properties.
- South: Immediately by vacant land and Ramona Expressway.
- West: Immediately by vacant rural fields and E. Oleander Ave.

### **C. USGS TOPOGRAPHIC MAP**

The subject property's physical setting was researched employing a United States Geological Survey (USGS) 7.5 Minute Topographic Quadrangle (Quad) Map relevant to the subject property. The USGS 7.5 Minute Quad Map has an approximate scale of 1 inch to 24,000 feet, and shows physical features such as wetlands, roadways, mines, and buildings. The USGS 7.5 Minute Quad Map was used as the Standard Physical Setting Source, and is sufficient as a single reference.

The Perris, California Quad Map shows no physical features that are likely to environmentally impact the subject property. The subject property is identified as a rural residential developed, rectangular property. No mines, aboveground storage tanks, or wetlands were depicted in the immediate area of the subject property; however there is Lake Perris to the east. The elevation of the subject property is approximately 1460 feet above mean sea level with a gentle topographic gradient to the southwest (USGS Perris 7.5' Quadrangle). A copy of the map can be found in appendix B.

### **D. GENERAL HYDROGEOLOGIC CHARACTERISTICS**

The subject property is within the San Jacinto Groundwater Basin, underlying the San Jacinto water shed. The San Jacinto Groundwater Basin underlies several valleys in the southwestern portion of Riverside County. The basin is bounded on the southeast by the Vandeventer Flat Groundwater Basin and otherwise bounded by impermeable rocks of the San Jacinto Mountains. The valley is drained by the South Fork of the San Jacinto River and receives an average annual precipitation ranging from about 14 to 28 inches. (California Department of Water Resources (DWR). 1975. *California's Ground Water*. Bulletin 118.).

Groundwater in the basin is found in Quaternary age younger and older alluvium that consists of clay, silt, sand, and gravel. Alluvial deposits may reach as about 100 feet in thickness, but are more commonly less than about 45 feet thick. Groundwater is also produced from residuum and from fractured crystalline rocks below the basin. (California Department of Water Resources (DWR). 1975. *California's Ground Water*. Bulletin 118.).

Recharge of this basin is likely from percolation of precipitation and runoff, and subsurface flow from San Jacinto Mountains and Lake Perris.

Although site-specific groundwater information for the subject property was unavailable, according to information obtained from the California Department of Water Resources on-line database (<https://www.casgem.water.ca.gov>) the closest well site with available on-line groundwater data (Local Well ID EMWD25517) indicates an *estimated* depth to first groundwater of approximately 32.94 feet below ground surface in 2013. Groundwater flow direction beneath the site is not provided.

## **SECTION IV.**

### **HISTORICAL REVIEW**

The site historical review is used to develop an understanding of the previous uses of the subject property and surrounding area in an effort to identify the likelihood of past uses, or activities having environmentally impacted, the subject property. The historical review consisted of a search of various public and private Standard Historical Sources, as detailed in the sections below.

As defined by ASTM E1527-2013, a Standard Historical Source is considered complete if the information contained within the source identifies all uses of the subject property from the time the property was first used for residential, agricultural, commercial, industrial or governmental purposes. Ideally, the information should be available in either five-year intervals or site milestone events (i.e., initial construction activities, demolition activities, etc.). However, available public and private historical sources do not always fulfill this goal, in which case, the closest approximation is made based upon the sources readily available at the time of historical review.

**Historical Review Summary:** From the historical information review discussed below, E-S concludes that the subject property was initially developed in 1985 with wood frame structure, primarily used for residential purposes. The structure has been occupied by multiple tenants since its construction. No dry cleaners, gasoline stations, major landfills, military bases, or heavy industrial businesses were identified on the subject property. Currently the site is used for residential purposes.

#### **A. AERIAL PHOTOGRAPH REVIEW**

Aerial photographs were reviewed by E-S to evaluate past land-use patterns of the subject property and vicinity. The photos were supplied by Google Earth Pro. Copies of representative aerial photographs can be found in the appendix. This review revealed the following:

1938 to 1953:

The subject property is in a rural area, and undeveloped. The surrounding area usage consists of rural land, with the introduction of tilling in the 1953 photo.

1967 to 1989:

The subject property has been parceled and delineated by dirt roads, with evidence of agriculture and water impoundment. To the northwest water retention ponds appear to be developed.

1989 to Present:

The subject property has been tilled and shows agricultural activities. The surrounding area usage shows an increase of rural and multifamily residential land.

## **B. BUILDING PERMIT REVIEW**

In an effort to evaluate the development history of the subject property, E-S reviewed the Riverside County, Department of Planning website (<http://www3.tlma.co.riverside.ca.us/>). Review of this information indicated the Assessor's Parcel Numbers for the subject property is 302-150-009, 302-150-010, 302-150-011, 302-150-012, 302-150-013, 302-150-014, 302-150-015, 302-150-016, 302-150-017, 302-150-018, 302-150-019, 302-160-003, 302-160-004, 302-160-006, 302-160-007, 302-160-008, 302-160-009, 302-160-010, 302-160-011, 302-160-012, 302-160-013, 302-160-014, 302-160-015, 302-160-017, 302-160-019, 302-160-020, 302-160-021, 302-160-022, 302-170-008, 302-170-009, and 302-170-010. The recorded lot size for all of the above is 80 acres. The legal description is not available, Thomas Bros. page 982, grid B6, Township and Range is T8SR1E SEC 29. Property characteristics indicated a wood framed building 960 square feet, however the site visit revealed that the building burned down the 1980s, and only the slab was visible. No other information significant to this report was obtained from the Assessor's data. The data can also be found in the appendix G.

## **C. SANBORN FIRE INSURANCE MAP REVIEW**

E-S did not request Sanborn Fire Insurance Maps for the subject property; the property has never been developed.

## **D. CITY STREET DIRECTORY REVIEW**

E-S did not request a "City Street Directory" for the area of the subject property due to the rural location.

## **E. HISTORICAL TOPOGRAPHIC MAP REVIEW**

Historical topographic maps were provided by EDR and reviewed by E-S. No significant additional information was revealed after review.

## **F. INTERVIEWS**

As specified in ASTM E1527-2013, interviews will be conducted with parties including present land owners and occupants, past land owners and occupants, and adjoining property owners, as appropriate and as available. E-S did not interview a Key Site Manager, however Mission Pacific Land Company was able to answer questions and fill out the questionnaire. No significant additional information was revealed after the interview.

During the site visit, the E-S Assessor was not accompanied by the Key Site Manager due to the rural vacant state of the properties.

## **G. RECORDED LAND TITLE RECORDS**

As specified in ASTM E1527-2013, recorded land titles are records usually maintained by the municipal or county recorder of deeds which detail ownership fees, leases, land contracts, easements, and other encumbrances attached to or recorded against the subject property. Due to state land trust regulations and laws, land-title records typically only provide trust names, owner's names, or easement holders, and not information concerning previous uses or occupants of the subject property. Therefore, this Assessment has relied upon other standard historical information sources which are typically more informative than recorded land titles. The Client also has not provided an environmental liens/activity usage limitation search for E-S's review, or requested that such a search be performed by E-S. According to the ASTM E1527-2013 guidelines, it is the responsibility of the User of this report to perform such a review.

A title report was not provided, however a search was conducted on-line at the Riverside County Land information site (<http://www3.tlma.co.riverside.ca.us/pa/rcdis/index.html>). Such a report typically does not list all documents related to the subject property, simply those that the title insurer wants to exclude from coverage and/or that are of potential interest to the transaction. Title reports may also be one method to evaluate the environmental liens search required by the ASTM E1527-2013 standard, which is required to be performed by the report User. A liens/use limitations search by the User is required by the ASTM/AAI standard 180 days or less prior to acquisition of a property, but a general review of the above title report was performed by E-S.

No obvious issues that would significantly environmentally impact the subject property were noted from this review. In addition, no environmental liens, environmental deed restrictions, nor activity and or use limitations related to environmental issues were specifically listed. Please note that E-S has not reviewed the underlying documents related to the items listed in the title report, and the purpose of the items was only generally ascertained based on their listed document name. E-S also did not review the title report for potential non-environmental issues that may affect the property, and is not providing a legal opinion as to the contents of the report. If more in-depth information is desired regarding the contents of the title report, appropriate legal counsel or a title professional should be consulted.

## **H. DATA GAPS**

As specified in ASTM E1527-2013, data gaps are defined as “a lack or inability to obtain information required by the standards and practices listed in the regulation despite good faith efforts by the Environmental Professional or prospective landowner to gather such information”. Data failure occurs when historical research does not identify standard historical sources that are “reasonably ascertainable” and “likely to provide useful information to identify prior uses of the property”. Per ASTM E1527-13, the assessment must document data failure and give reasons why historical sources were not available or excluded (if applicable). Based on E-S's research, no significant data gaps were identified for the subject site.

## SECTION V. AGENCY RECORDS REVIEW

In an effort to evaluate whether the subject property and/or nearby sites have reported USTs, hazardous waste generation, or hazardous material releases, regulatory information from the federal, state, and local agencies listed below were reviewed. The database report was compiled by a third-party database provider and is reportedly the most recent database information available from each agency. A copy of the database report is included in the appendix. According to the database provider, their search of the various databases conforms to ASTM E1527-2013 Standards. However, the accuracy of the information provided by the agencies is not without error or omission, and the information listed is limited to that which was reported to or gathered by that agency. A limited discussion of the number of sites identified, and of their potential impact to the subject property, follows this page. In addition, E-S may request state and/or local regulatory agency information for the subject property, targeting those agencies most likely to provide information useful for this Assessment. The primary databases reviewed and their general search range criteria are below:

<b>Federal Database</b>	<b>Search Range</b>
USEPA NPL/Superfund databases:	Target Property to 1.0 mile
USEPA CERCLIS databases:	Target Property to 0.5 mile
USEPA RCRIS facilities databases	
Corrective Action Sites:	1.0 mile
TSD Facilities:	0.5 mile
Generators:	0.25 mile
USEPA ERNS database:	Target Property
US Engineering Controls:	0.5 mile
US Institutional Controls:	0.5 mile
US DOD/FUDS databases:	1.0 mile
US Brownfields:	0.5 mile
<b>State/Local Database</b>	<b>Search Range</b>
State Superfund databases:	
Hist Cal-Sites:	1.0 mile
CA Bond Exp. Plan	1.0 mile
State Landfills database:	0.5 mile
State Cortese	0.5 mile
State/Local LUST databases:	0.5 mile
State Spills databases:	
SLIC:	0.5 mile
CHMIRS:	Target Property
State/Local UST/AST databases:	0.25 mile
State Liens database:	Target Property
State Deed database:	0.5 mile
State VCP database:	0.5 mile
State EnviroStor/Response databases:	1.0 mile
State HAZNET database:	Target Property
Local Haz-Mat/Cleanup databases:	Target Property

*E-S's Agency Records Request/Search Range:*

County of Riverside Department of Environmental Health/Subject Property

Cal-EPA-Department of Toxic Substances Control/Subject Property

California Department of Water Resources/Subject Property

**A. REVIEW OF FEDERALLY REPORTED ENVIRONMENTAL DATA**

The review of the federal environmental databases listed below attempts to identify environmental problem sites, activities, and occurrences from the records of the U.S. Environmental Protection Agency (USEPA). The detailed listing, and a map showing the location of the sites relative to the subject property, is included in the appendix.

**National Priorities List (NPL) of Superfund Sites:**

The NPL is the USEPA's database of hazardous waste sites currently identified and targeted for priority cleanup action under the Superfund program. This search includes Proposed NPL sites, Delisted NPL sites, and NPL Recovery sites. NPL sites may encompass relatively large areas. As such, polygon coverage for the site boundaries (for a majority of the NPL sites), as produced by the EPA may be provided. A search of the NPL database identified the following number of Superfund sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

**National Priorities List Liens (NPL Liens):**

The NPL Liens database contains a list of filed notices of Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. A search of the NPL Liens database identified the following number of sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

### **Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980:**

Mandated as part of the 1980 Superfund Act, the CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) list is an EPA compilation of the sites investigated, or currently being investigated, for a release or potential release of a regulated hazardous substance under the CERCLA regulations. A search of the CERCLIS and CERCLIS-NFRAP (no further remedial action planned) databases identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **RCRIS Corrective Action (RCRIS-CA) Sites:**

The RCRIS-CA report contains information pertaining to hazardous waste handling facilities which have conducted, or are currently conducting corrective actions, as regulated by the Resource Conservation and Recovery Act. A search of the RCRIS-CA list identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Resource Conservation and Recovery Act Information System (RCRIS) Treatment, Storage, and Disposal (TSD) Facilities:**

The RCRA program identifies and tracks hazardous waste from generation source to the point of ultimate disposal. The RCRIS-TSD facilities database is the composite of reporting facilities that transport, store, or dispose of controlled or hazardous waste. Identification on this list does not indicate that a site has impacted the environment. A search of the RCRIS-TSD database identified the following number of facilities within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **RCRIS Generator Facilities:**

The RCRIS program identifies and tracks hazardous waste from generation source to the point of ultimate disposal. The RCRIS generator facilities database (large and small quantity generators and various derivations) is the composite of reporting facilities that generate hazardous waste. Identification on these lists does not indicate that a site has impacted the environment. A search of the RCRIS facilities databases identified the following number of sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

#### **Emergency Response Notification System (ERNS):**

The ERNS database is the historical record of releases of hazardous substances reported to the USEPA. A search of the ERNS database identified the following number of releases within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

#### **EPA Engineering and Institutional Controls (US ENG/INST CONTROL) Sites:**

These databases include listings of sites with engineering or institutional controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are required as part of the institutional controls. A search of the US ENG/INST CONTROL database(s) identified the following number of sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

### **Department of Defense (DOD) Sites:**

The United States Geological Survey (USGS) maintains the DOD database, which consists of federally owned or administered lands, administered by the DOD, that have an area equal to or greater than 640 acres of the United States, Puerto Rico, and the US Virgin Islands. A search of the DOD database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Formerly Used Defense Sites (FUDS):**

The U.S. Army Corps of Engineers database contains a listing of locations of Formerly Used Defense Sites (FUDS) where the U.S. Army Corps of Engineers is actively working or will take necessary cleanup actions. A search of the FUDS database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **US Brownfields Sites (Brownfields):**

The US Brownfields site includes brownfields properties addressed by Cooperative Agreement Recipients (CAR) and brownfields properties addressed by Targeted Brownfields Assessments (TBA). EPA's TBA program is designed to help states, tribes, and municipalities minimize the uncertainties of contamination often associated with brownfields. Cooperative Agreement Recipients (states, political subdivisions, territories, and Indian tribes) become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the USEPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities. A search of the Brownfields database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **CERCLA Lien Information (LIENS 2):**

A Federal Superfund Lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. A search of the LEINS 2 database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Facility Index System (FINDS) sites:**

The FINDS Report is a computerized inventory of all facilities that are regulated or tracked by the U.S. Environmental Protection Agency. These facilities are assigned a unique identification number that serves as a cross-reference for databases in the EPA's program system. Identification on this database does not indicate that a site has impacted the environment. A search of the FINDS database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

## **B. REVIEW OF STATE-REPORTED ENVIRONMENTAL DATA**

Results of the state regulatory records search follow. Each section begins with a general description of the databases searched and the corresponding responsible state or local agency. The detailed listing, and a map showing the location of the sites relative to the subject property, is included in the appendix.

### **State Hazardous Waste Site (SHWS) Databases:**

State Hazardous Waste Site records are the states' equivalent to CERCLIS. The Department of Toxic Substances Control (DTSC) Hist Cal-Sites database contains potential or confirmed hazardous substance release properties. The Calsites database was created by the Department of Toxic Substances and Control (DTSC), but DTSC no longer up-dates the Calsites database. The Calsites database was replaced by the EnviroStor database (see EnviroStor section below). The CA Bond Expenditure Plan database contains the Department of Health Services site-specific expenditure plan, which is the basis for an appropriation of

Hazardous Substance Cleanup Bond Act funds. A search of the State Hazardous Waste Site database(s) identified the following number of sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

#### **Solid Waste Facilities, Landfills and Recycling Facilities:**

The State Solid Waste Facilities and Landfills and Recycling databases include an inventory of active, closed, and inactive solid waste disposal facilities, landfills, refuse transfer stations, and recycling facilities (non-landfill sites). A search of these databases identified the following number of sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

#### **Historical Cortese Database:**

The Historical Cortese list contains hazardous waste and substance sites compiled pursuant to Assembly Bill 3750 (Cortese, Chapter 1048, Statutes of 1986). The information included in this list was compiled with information from the California DTSC, the State Water Resources Control Board, and the California Waste Management Board. This database contains primarily LUST sites, although other types of sites may be included. A search of the Cortese database identified the following number of sites within the specified search range:

Number of Sites	Number Listed at Subject Property
None	None

#### **Leaking Underground Storage Tanks (LUSTs):**

State and/or local agencies maintain inventories of LUSTs (also known as LTANKS) in a statewide database. A search of the LUST database identified the following number of reported LUST sites within the specified search range:

Number of Sites	Number Listed at Subject Property
None	None

### **State/Local Spills Databases:**

The Spills, Leaks, Investigations, and Cleanup (SLIC) Cost Recovery Listing program is designed to protect and restore water quality from spills, leaks, and similar discharges. The database(s) included in this section are the states' equivalent to the ERNS report and generally contain information for reported hazardous material/waste surface or groundwater contamination release investigations reported in that state or locality. The California Hazardous Material Incident Report System (CHMIRS) database contains information on reported hazardous waste material incidents (accidental releases or spills). A search of these databases identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Underground Storage Tanks (USTs)/Aboveground Storage Tanks (ASTs):**

USTs are regulated under Subtitle I of the RCRA (as well as various state regulations), and must be registered with the State Underground Storage Tank Program. These are registered USTs only, and identification on this list(s) does not necessarily indicate that the site has impacted the environment. This search includes review of the Active UST Facilities (UST) database, Facility Inventory Database (CA FID UST), Hazardous Substance Storage Container Database (HIST UST), and SWEEPS UST Listing database (SWEEPS UST). Also potentially included in this section are sites identified on historic UST databases that are no longer maintained. The AST database is the State Water Resources Control Board's Hazardous Substance Storage Container Database for registered ASTs. A search of these UST and AST databases identified the following number of sites within the specified search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Environmental Liens Listing (LIENS):**

The Department of Toxic Substances Control's (DTSC) LIENS database includes a listing of property locations with environmental liens for California where DTSC is a lien holder. A search of the LIENS database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Deed Restriction Listing (DEED):**

The Department of Toxic Substances Control's (DTSC) DEED database includes a listing of Site Mitigation and Brownfields Reuse Program (SMBRP) Facility Sites with Deed Restrictions and Hazardous Waste Management Program Facility Sites with Deed/Land Use Restrictions. The SMBRP list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active, and some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners. A search of the DEED database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **Voluntary Cleanup Program (VCP):**

The Department of Toxic Substances Control's (DTSC) VCP database contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee the investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs. A search of the VCP database identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

### **State Response/EnviroStor Databases:**

The Department of Toxic Substances Control's (DTSC) RESPONSE database identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. The DTSC's Site Mitigation and Brownfields Reuse Program's (SMBRPs) EnviroStor database identifies sites that have reported contamination or sites for which there may be reason to investigate further. The database includes the following site types: Federal Superfund Sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in Cal-Sites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites. A search of the Response and EnviroStor databases identified the following number of sites within the specified database search range:

<b>Number of Sites</b>	<b>Number Listed at Subject Property</b>
None	None

**State and/or Local Agency Generators (HAZNET):**

The HAZNET data is extracted from copies of hazardous waste manifests kept by the Cal-EPA, DTSC. These manifests track hazardous wastes from generation source to the point of ultimate disposal. Permit data is generally culled from local agency database(s) for hazardous material handlers and generators. Identification on these lists does not indicate that a site has impacted the environment and the data has not always been verified for accuracy by the DTSC or local agencies. A search of the HAZNET and Permit data identified the following number of reported sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

**National Pollutant Discharge Elimination System (NPDES) Database:**

The National Pollutant Discharge Elimination System (NPDES) includes sites that have had or have a permit for the discharge of wastewater or stormwater issued by the Regional Water Quality Control Board or a local agency (e.g., Public Works Department). The NPDES data identified the following number of reported sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

**State and/or Local Agency Air Emissions Database (EMI):**

The EMI data is extracted from permits for air emissions kept by the state or local air resources agency. Identification on these lists does not indicate that a site has impacted the environment. A search of the EMI database identified the following number of reported sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

### **Notify 65 Database:**

Notify 65 listings generally indicate that some type of release and/or groundwater impact have occurred which was required to be reported under Proposition 65 rules. A search of the Notify 65 data identified the following number of reported sites within the specified database search range:

Number of Sites	Number Listed at Subject Property
None	None

### **EDR Historical Auto Stations, Historical Cleaners, & Manufactured Gas Plants Databases:**

These databases include former gas stations, auto repair shops, dry cleaners, Laundromats, and manufactured gas plants that are typically no longer active. Identification on these databases does not necessarily indicate that such activities actually occurred at that site or that a site has impacted the environment. A search of these databases identified the following number of sites within the specified database search range:

Type of Site	Number of Sites	Number Listed at Subject Property
Historical Auto Stations	None	None
Historical Cleaners	None	None
Historical Manufactured Gas	None	None

### **Orphan Unplottable Sites:**

“Orphan” sites are those which could not be plotted by the database provider using conventional geo-coding methods, typically because the information provided in the original government database was unclear, incorrect or missing. A listing of orphan sites (if any) appears at the end of the database, immediately after the last plottable site description.

E-S reviewed the orphan list for sites with the same name as the subject property (if applicable) and/or the same or similar property address. This review is inherently limited by the incomplete and/or possibly incorrect data reported in the orphan listings. For orphans apparently not related to the subject property, only those obviously located adjoining or within a short distance that may affect the property are discussed. Orphan sites which are also listed in the plotted section are not re-discussed. E-S’s review of the orphan list revealed no obvious sites of concern listed at or adjoining the subject property.

## **C. LOCAL AGENCY RECORDS SEARCH**

The following is a discussion of the results of E-S's written records requests, online regulatory database review, and/or personal/telephone contacts (as applicable) made to state and/or local government agencies in an effort to obtain potential information relevant to the subject property:

### **County of Riverside Environmental Department:**

E-S contacted the County of Riverside Environmental Health in an effort to evaluate whether hazardous material incidents, USTs, and/or LUSTs have been reported at the subject property address. Because the property does not have a physical address, there is no way to track hazardous material incidents through the County of Riverside Environmental Department.

### **California EPA - Department of Toxic Substances Control (DTSC):**

E-S also reviewed CalEPA-DTSC's Hazardous Waste Tracking System (HWTS) online database (<http://hwts.dtsc.ca.gov>) in an effort to identify potential hazardous waste generation/disposal activities associated with the subject property address. A search was not performed, because the property does not have a physical address, there is no way to track hazardous waste generators through Department of Toxic Waste.

### **California Department of Water Resources:**

E-S contacted the California Department of Water Resources in an effort to evaluate whether any state listed water wells or water resources are located on the subject property address. No water wells are located on the property.

## **D. TRIBAL RECORDS SEARCH**

According ASTM E1527-2005, records for local and tribal records shall be checked to satisfy all appropriate inquiry for this assessment. The following is a discussion of the results of E-S's written records requests, online regulatory database review, and/or personal/telephone contacts (as applicable) made to tribal governmental agencies in an effort to obtain potential information relevant to the subject property:

The subject property is not located on tribal property and therefore no inquiry was necessary.

## **SECTION VI.**

### **SITE VISIT OBSERVATIONS**

#### **A. SITE STRUCTURE CHARACTERISTICS**

At the time of the site visit, the subject property consisted of several agriculturally developed parcels of land, totaling approximately 80 Acres. The property is agriculturally developed land. No pesticides, sumps, clarifiers, swales, or surface impoundments potentially containing hazardous materials were observed on the subject property. Weather conditions at the time of the site visit consisted of clear skies, with temperatures in the 70s.

Specific observations of note from the site visit included:

During the site visit, no water wells were observed. Several power poles mounted transformers were observed along Evans Road along the east edge of property line and appeared in good condition.

#### **B. WASTEWATER AND STORMWATER MANAGEMENT**

No wastewater was observed at the subject site.

Storm water and surface run-off from the subject property and adjacent properties enter the natural storm water and flood control conveyance systems.

#### **C. POTABLE WATER SUPPLY**

The subject property currently utilizes water from the adjacent canal for agriculture, Eastern Municipal Water District will supply for residential.

#### **E. BUSINESS OPERATIONS DESCRIPTION**

According to the Riverside County Department of Planning, the subject property zone is rural residential. E-S's research indicates no dry cleaners, gasoline stations, military bases, or major manufacturing operations have occupied the subject property.

**SECTION VII.**  
**HAZARDOUS MATERIAL/WASTE OBSERVATIONS**

**A. HAZARDOUS MATERIALS HANDLING AND STORAGE**

No hazardous materials were observed at the subject property. No significant staining or spillage was observed in any of the areas inspected. No other significant hazardous materials handling or storage were observed on the subject property during the site visit.

**B. WASTESTREAM GENERATION, STORAGE AND DISPOSAL**

During the inspection, no hazardous waste generation, storage, or improper hazardous waste disposal was observed on the subject property. Stained or discolored sinks, drains, catch basins, drip pads, or sumps were not observed. Additionally, significant spills or staining were not observed at the subject property.

**C. SOLID WASTE DISPOSAL**

During the inspection, no solid waste generation, storage, or improper solid waste disposal was observed on the subject property.

**D. ABOVEGROUND STORAGE TANKS (ASTs)**

Visual or physical indicators of current or former ASTs were not observed at the subject property during the site visit.

**E. UNDERGROUND STORAGE TANKS (USTs)**

As discussed in the Section V (Agency Records Review) of this report, no USTs were reported at the subject property. In addition, no visual or physical evidence of current or past USTs were discovered during the site visit in the readily visible areas of the property. In particular, E-S searched for: fill pipes, vent pipes, man-ways, manholes, access covers, and or concrete pads not homogeneous with surrounding surfaces, concrete built-up areas potentially indicating pump islands, abandoned pumping equipment, or fuel pumps.

**SECTION VIII.**  
**OTHER POTENTIAL ISSUES OF CONCERN**

**A. PCB-CONTAINING EXTERIOR ELECTRICAL TRANSFORMERS**

No pole-mounted electrical transformers were observed on the subject property

**B. OTHER PCB-CONTAINING INTERIOR OR EXTERIOR EQUIPMENT**

During the on-site inspection, no evidence was observed of any equipment likely containing PCB-contaminated fluid (e.g., interior electric transformers, hydraulic elevators, hydraulic hoists/lifts, hydraulic loading dock ramps, other fluid containing equipment, etc.).

**C. SUSPECT ASBESTOS-CONTAINING MATERIALS (ACMs)**

Due to the vacant nature of the property with no buildings, no observations of asbestos-containing materials (ACMs) were identified.

**D. LEAD-BASED PAINT (LBP)**

Due to the vacant nature of the property currently being undeveloped, no observations of lead-based paint (LBP) was observed.

**E. LEAD IN DRINKING WATER**

Federal regulations limit lead in publicly supplied water to no more than 15 parts per billion (ppb), however, the most common source of lead in tap water is from interior plumbing systems (piping, connections, faucets, etc.). Children are the most susceptible to possible health effects from consuming lead-tainted drinking water. Due to the nature of the property being undeveloped, no observations of these sources were observed. The presence or absence of elevated lead concentrations in the water can only be confirmed through laboratory testing, and such analysis is beyond the scope of this Assessment.

**F. AIR QUALITY**

Unusual smells, noxious odors, or visual emissions were not observed during the inspection of the subject property. However, these observations are general in nature and should not be construed as an air quality assessment.

## **G. RADON**

According to the USEPA, the general area of the site has a predicted average indoor screening level of less than the EPA guideline action level of 4.0 picoCuries per liter of air (EPA Radon Zone Level of 2 or 3). Therefore, based upon the reported subsurface characteristics of the area, the subject property exhibits a low to moderate potential for high-level radon exposure.

## **H. RAILROAD RIGHTS-OF-WAY**

There are several potential environmental risks associated with railroad rights-of-way, including the usage of herbicides, pesticides, petroleum materials and related heavy metals (e.g. arsenic) to maintain the tracks, as well as the potential spillage of hazardous materials from railcars. During the site visit, railroad rights-of-way, spurs, or related features were not observed immediately adjoining the subject property.

**SECTION IX.**  
**ADJOINING PROPERTY OBSERVATIONS**

As discussed below, based upon limited observations of the adjoining properties from publicly accessible locations, as well as a review of federal, state, and local environmental databases, none of the adjoining properties appeared to have significantly environmentally impacted the subject property at this time.

**A. ADJOINING PROPERTIES MATERIALS STORAGE**

Visual observations of the portions of the adjoining properties visible from the subject property or public roadways did not indicate the exterior storage of hazardous materials or wastes. No indications of spillage or staining were observed in the observable exterior areas of these sites. Additionally, no obvious indications of improper hazardous material storage or unusual or suspicious materials handling or storage practices were observed.

**B. ADJOINING PROPERTIES WASTESTREAM DISPOSAL**

No unusual or suspicious waste stream disposal activities were observed on the portions of the adjoining properties visible from the subject property or public roadways.

**SECTION X.**  
**STATEMENT OF THE ENVIRONMENTAL PROFESSIONALS**

This Assessment has been performed for the exclusive use and benefit of the addressee(s) identified on the cover of this report, or agents directly specified by it (them), for the transaction at issue concerning the subject property described in this report. This Assessment shall not be used or relied upon by others without the prior written consent of Earth-Strata, Inc. and of the addressee(s) named on the cover of this report.

**STATEMENT OF QUALITY ASSURANCE**

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in § 312.10 of 40 CFR 312 and 12.13.2. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. The conclusions contained within this Assessment are based upon site conditions I readily observed and were reasonably ascertainable and present at the time of the site visit. The findings and conclusions represent my best professional opinion and judgment. In addition, the conclusions and recommendations stated in this report are based upon personal observations made by E-S and upon information provided by others. I have no reason to suspect or believe that the information provided is inaccurate.

**STATEMENT OF QUALITY CONTROL**

The objective of this Phase I ESA was to ascertain the potential presence or absence of RECs that could impact the subject property, as delineated in the scope of services and limitations identified in this report and in the service agreement. The procedure was to perform reasonable steps in accordance with the existing regulations, currently available technology, and generally accepted environmental consulting practices, in order to accomplish the stated objective.

Signature of Professional Geologist – *William T. Doyle, #05148:*

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Signature/Environmental Assessor

## Acronyms and Abbreviations

Below are several abbreviations that E-S uses to describe various projects.

ACM	Asbestos-containing material
AQMD	Air Quality Management District
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	Below Ground Surface
BTEX	Benzene-toluene-ethylbenzene-xylene
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CFR	Code of Federal Regulations
CHMIRS	California Hazardous Material Incident Report System
COC's	Chemicals of Concern
CDL	Clandestine Drug Labs
DEP	Department of Environmental Protection
DOD	Department of Defense
DOE	Department of Energy
DTSC	Department of Toxic Substance Control
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FINDS	Facility Index System
FUDS	Formerly Used Defense Sites
HMIRS	Hazardous Materials Information Reporting System
ICIS	Integrated Compliance Information System
LBP	Lead Based Paint
LDL	Laboratory Detection Limit
LEL	Lower Explosion Limit
LUCIS	Land Use Control Information System
LUST	leaking underground storage tank
MCL	Maximum Contaminant Level
MLTS	Material License Tracking System
mg/L	Milligrams per liter
MSDS	Material Safety Data Sheet
MTBE	Methyl Tertiary Butyl Ether
NFA	No Further Action
NPL	National Priority List
ODI	Open Dump Inventory
PADS	PCB Activity Database System
PCB	Poly Chlorinated Biphenyl
PEL	Permissible Exposure Limit
Ppb	Parts per billion
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
RWQCB	Regional Water Quality Control Board
SVE	Soil Vapor Extraction
Ug/L	Micrograms per Liter
UST	Underground storage tank
VOC	Volatile Organic Compound

# APPENDIX

## A

# APPENDIX

## B

# APPENDIX

## C

# APPENDIX

## D

# APPENDIX

## E

# APPENDIX

## F

# APPENDIX

## G

