APPENDIX 5.9 BIG-1

HAZARDOUS MATERIALS AND WASTES TECHNICAL REPORT

*PART 3

ATTACHMENT D

PHOTOLOG

ATTACHMENT D: Photo Log

Site reconnaissance was conducted on August 17, 2022, May 2, 2024, and June 2, 2025.

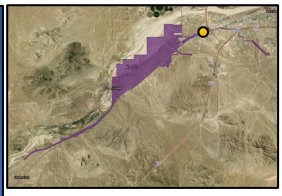


Photo 1: View of APN 0422-151-05 (Property 390), looking northwest.

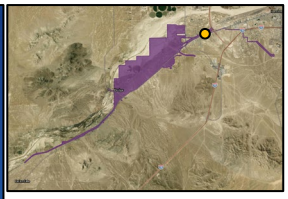


Photo 2: View of APN 0422-151-04 (Property 385), looking south.

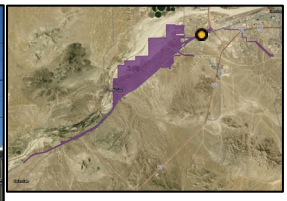


Photo 3: View of APN 0422-131-22 (Property 373). Approximately 15, 55-gallon drums with no secondary containment located on the Harbor Freight property.

Photo 4: View of Property 373. Note monitoring wells associated with the property.

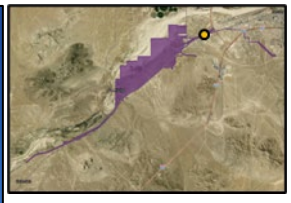


Photo 5: View of APN 0422-101-03 (Property 371), looking north. The acquisition parcel was vacant with indication of a gas line within the property.

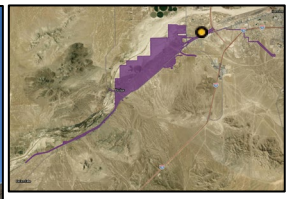


Photo 6: View of APN 0422-101-14 (Property 364), looking north. The acquisition parcel was vacant with trash and debris.

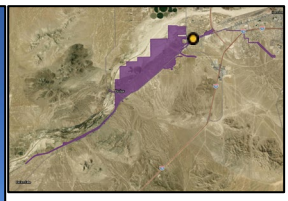


Photo 7: View of APN 0422-031-10, looking north. Evidence of former structure observed within; however, property was vacant at time of reporting.

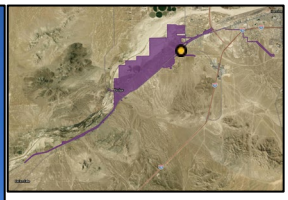


Photo 8: View of APN 0422-022-2X, looking west. The property was vacant and gated.

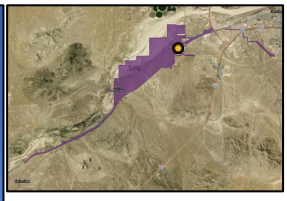


Photo 9: View of APN 0422-014-05, rear with tires scattered throughout the site.

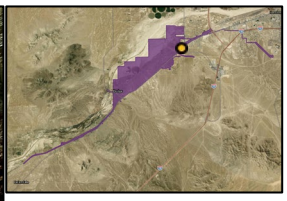


Photo 10: View of APN 0422-014-05, front of EDR Historic Automotive facility, looking west.

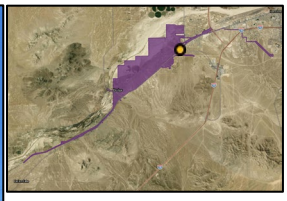


Photo 11: View of APN 0422-014-09, 0422-014-08, 0422-014-073, 0422-014-04 looking west.

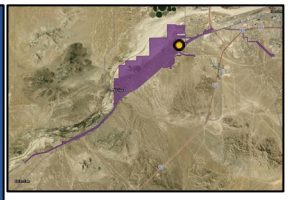


Photo 12: View of residential property APN 0422-012-03, looking south.

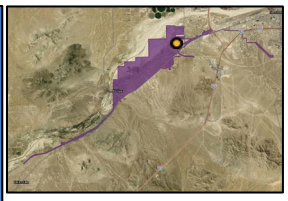


Photo 13: View of APN 0497-142-21, from Lenwood Road, looking east. Perimeter inspection showed view of stored vehicles.

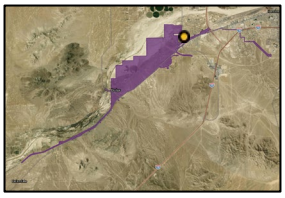


Photo 14: View of APN 0497-142-21, looking south. Perimeter inspection showed view of stored vehicles, transformers, and containers.

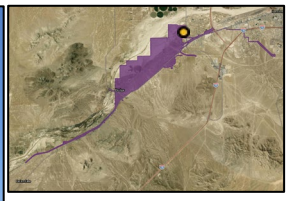


Photo 15: View of APN 0497-131-48 and 0497-131-50, of abandoned residence and former agricultural facility.

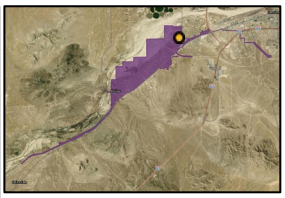


Photo 16: View of APN 0497-131-65, with potential ASTs onsite based on perimeter inspection.

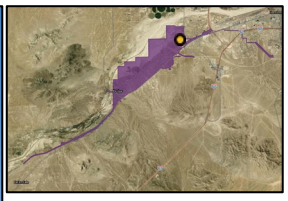


Photo 17: View of APN 0497-131-57, potential ASTs onsite based on perimeter inspection.

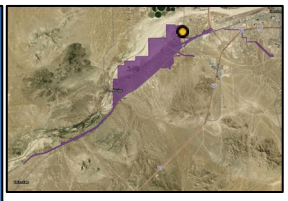


Photo 18: View of APN 0497-131-58, with unclassified soil stockpiles based on perimeter inspection.

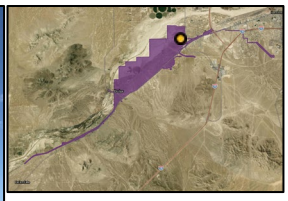


Photo 19: View of APN 0497-131-18, former agricultural field.

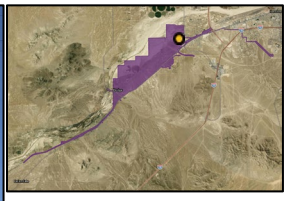


Photo 20: View of APN 0497-131-48, looking south.

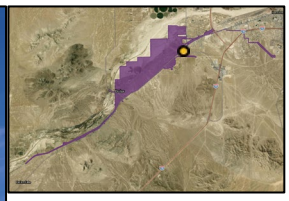


Photo 21: View of APN 0421-181-15 with unclassified soil material stored onsite.

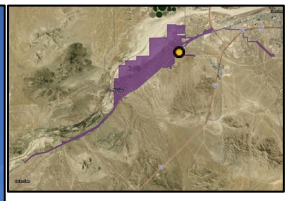


Photo 22: View of APN 0421-171-47 of a commercial and industrial warehouse.

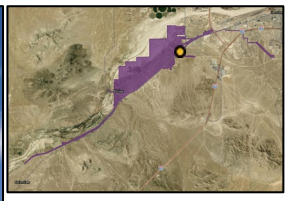


Photo 23: View of the Lenwood Channel from W. Main Street outside of the acquisition footprint APN 0421-141-13 .

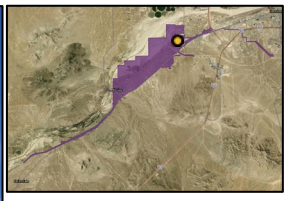


Photo 24: View of APN 0421-141-16 observed as a Kinder Morgan gas pipeline vent station.

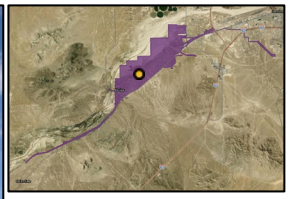


Photo 25: View of vacant parcels within the Site boundary, looking north.

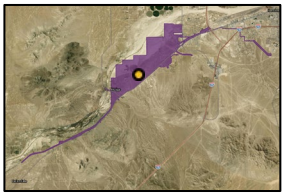


Photo 26: View of residential buildings, looking west.

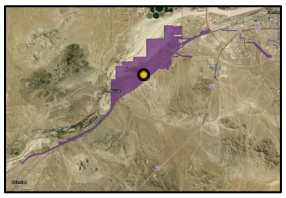


Photo 27: View of vacant desert from West Main Street.

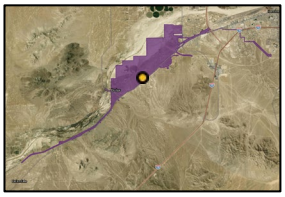


Photo 28: View of APN 0421-033-04 burned structure, looking south.

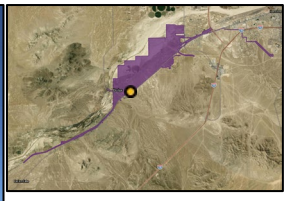


Photo 29: View of parcel 0421-041-38, 0421-041-41, 0421-041-40, and 0421-041-33 with burned structures, dumped material, tires, and debris, looking north.

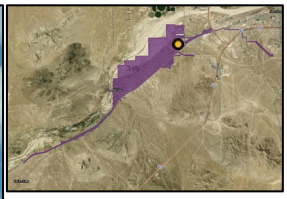


Photo 30: View of Youngs Drive, looking north.

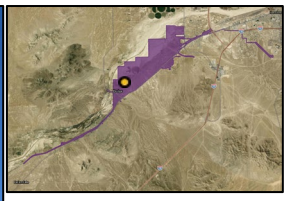


Photo 31: View of fallowed agricultural area within the northwestern portion of the BIG footprint.

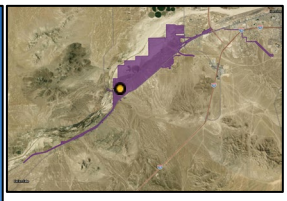
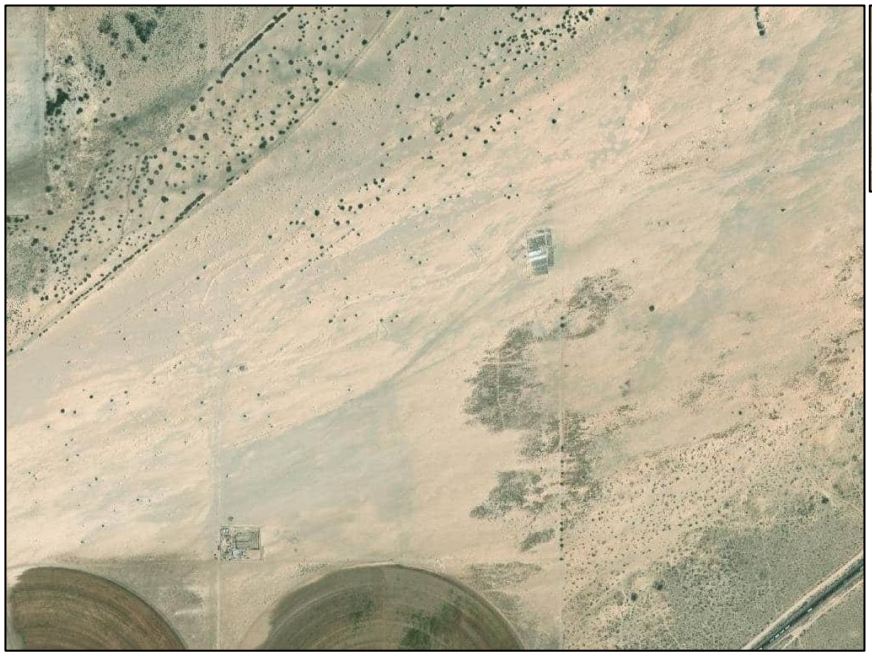


Photo 32: View of fallowed agricultural fields in.



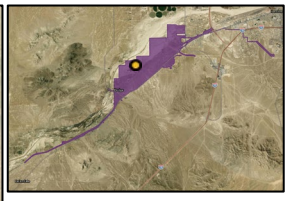


Photo 33: Aerial view of APN 0421-021-19, and potential undocumented grow facility.

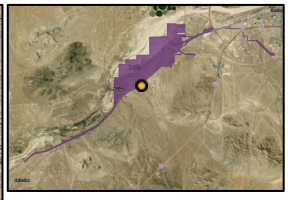


Photo 34: View of Mojave Water Agency pipeline pressure release valves along Jiggs Road.

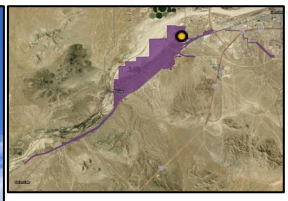


Photo 35: View of APN 0421-041-57 residential property, looking east.

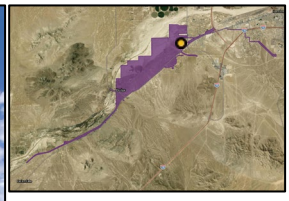


Photo 36: View of APN 0421-051-15 burned residential property, looking east.

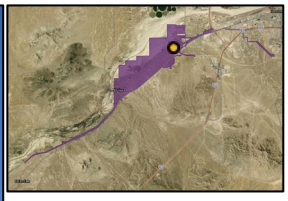


Photo 37: View of APN 0420-121-14 along BNSF right-of-way.

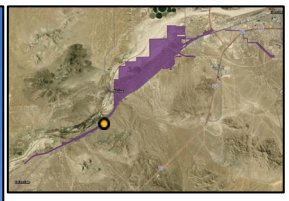


Photo 38: View of APN 0420-151-08 agricultural property.

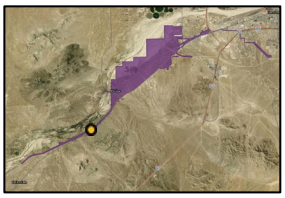


Photo 39: View of APN 0420-151-07 including cattle and horse stables within the property and observed ASTs with unknown contents.

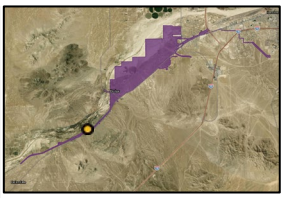


Photo 40: View of APN 0420-151-43 looking north at vacant desert along western end of BIG footprint.

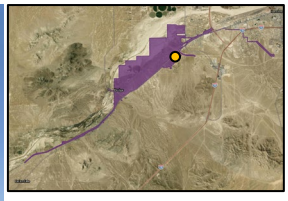


Photo 41 & 42: View of vacant desert within BIG Footprint.

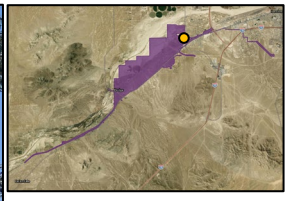


Photo 43: View of APN 0497-131-50 demolition debris from previous abandoned residence and former agricultural facility.

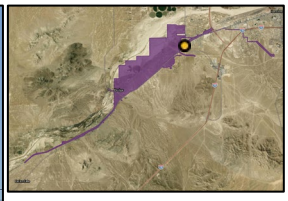


Photo 44: View of residence on Property 291 including storage, a groundwater well, and multiple ASTs.

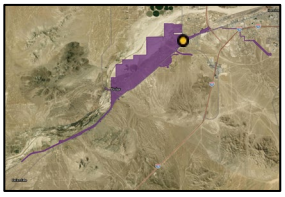


Photo 45a and 45b: View of APN 0422-021-11, 0422-021-10, and 0422-021-09, which has been cleared of previously identified drums of unknown contents and improper storage.

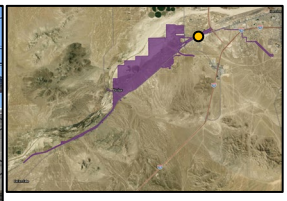


Photo 46: View of Harbor Distributing Note monitoring wells associated with the property.

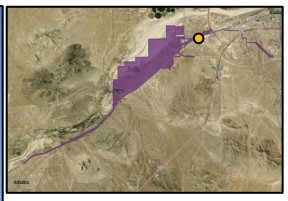


Photo 47: View former auto repair facility which has been cleared of previously identified drums of unknown contents and improper storage.

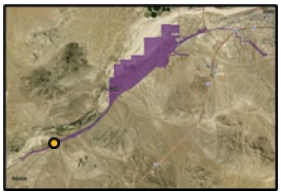


Photo 48: View of APN 0466-121-25, near Wild Crossing.

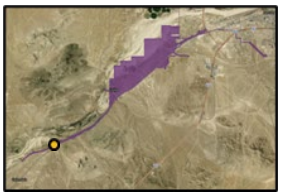


Photo 49: View of APN 0466-121-25, of railway facing Wild Crossing.

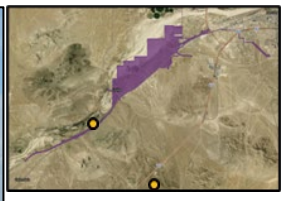


Photo 50: View of APN 0420-161-33, looking north.

Photo 51a & 51b: View of APN 0420-161-33 looking to the east and west of Main St.

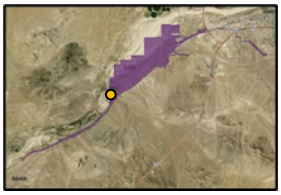


Photo 52: View of APNs 0420-082-27 of the Hinkley Road Bridge over the Mojave River.

Photo 53a and 53b: View of APNs 0421-082-35 and 0421-281-35 to the east near Sweeten Lane.

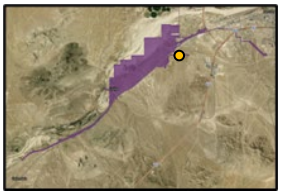


Photo 54: View of APNs 0421-082-35 & 0421-281-35, facing Taurus Drive.

Photo 55a and 55b: View of APNs 0421-181-09 & 0421-181-08 near the intersection of Lenwood Road and Main Street.

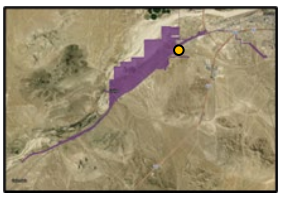


Photo 56: View of APNs 0421-181-09 and at the intersection of Lenwood Road and Main Street.

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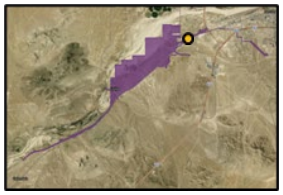

Photo 58: View of APN 0422-131-22 with abandoned facility containing debris.

Photo 59: View of APN 0422-131-22.

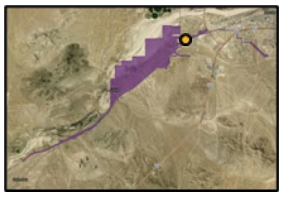

Photo 60: View of APN 0422-131-22 possible spill residue from drums previously stored onsite.

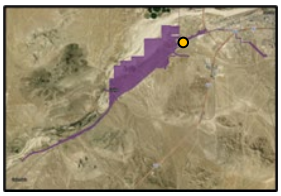

Photo 61: View of APN 0422-131-22 and minor dumping.

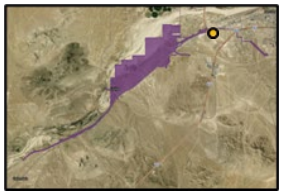

Photo 62: View of APN 0427-062-46, along the 33kV distribution line.

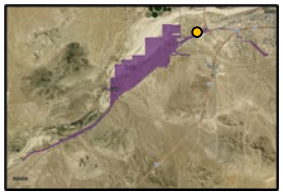

Photo 63: View of roadway looking toward 33Kv distribution line.

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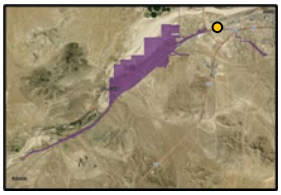

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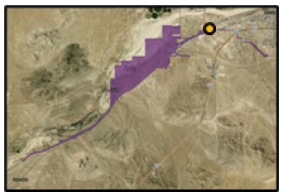

Photo 66: View along 33kV distribution line.

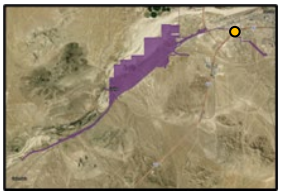

Photo 67: View along 33kV distribution line.

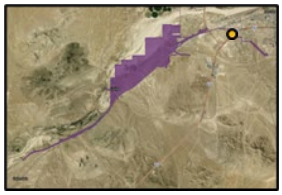

Photo 68a and 68b: View of APN 0427-121-38 and 0427-121-16 along the 33kV distribution line.

Photo 69a and 69b: View of APN 0427-121-38 and 0427-121-16 along the 33kV distribution line.

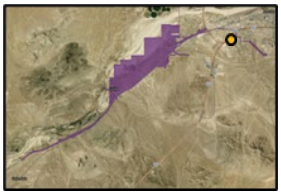

Photo 70: View of APNs 0428-021-18 (Properties 407), south of existing Tortilla Substation.

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Photo 72: View of APN 0428-021-21 (Property 408).

Photo 73: View of APN 0428-021-21 (Properties 408), north of Tortilla Substation.

ATTACHMENT E

PHASE I ESA REPORT

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GROUNDWATER MONITORING REPORT – MARCH 2025
N&M DAIRY
18200 & 18330 LORDS ROAD
HELENDALE, CALIFORNIA

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April 11, 2025

Project No.: 04481-01

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GROUNDWATER MONITORING REPORT – MAR 2025
N&M DAIRY
18200 & 18330 LORDS ROAD
HELENDALE, CALIFORNIA

1.0 INTRODUCTION

This report summarizes the results of groundwater monitoring activities conducted by ALTA EM, INC. (**AEM**) at the subject site located in Helendale, California (see **Site Location Map** - **Figure 1**). The monitoring activities were conducted in general accordance with requirements in Cleanup and Abatement Order No. R6V-2103-0103.

2.0 BACKGROUND

2.1 – Groundwater Monitoring Well Installations (2002)

In May 2002, J&B Environmental, Inc. (J&B) installed four groundwater monitoring wells (MW1-MW4) at the site. No soil or groundwater samples were collected at this time. Further details of the well installations are reported in J&B (2002).

Prior to 2004, events of groundwater monitoring were completed directly by the responsible party. In February 2004, **AEM** was engaged by the responsible party to conduct continued, semi-annual groundwater monitoring required by the LRWQCB.

2.2 - Groundwater Monitoring Events Since 2004

Groundwater monitoring was first completed by **AEM** in February of 2004 to "make-up" for a past due December 2003 required event (per the request of the LRWQCB). Between 2004 and 2013, monitoring events were completed on a semi-annual basis (May and December of each year). Starting in 2014, monitoring events are currently being done every 9 (nine) months, in general accordance with Cleanup and Abatement Order No. R6V-2103-0103. A total of 31 groundwater monitoring events have been completed at the site by **AEM** between 2004 and the present.

3.0 OBJECTIVES & SCOPE OF WORK

The objectives of the monitoring activities were to: 1) monitor the shallow groundwater for various physical and chemical characteristics, and 2) monitor various hydrogeologic conditions.

The scope of the monitoring consisted of the following major tasks:

- Collection of groundwater elevation data;
- Purging & sampling of the groundwater monitoring wells on the former dairy property;
  Note: Well MW4 was neither visible nor accessible (vehicle or on foot) due to overgrowth of chest-high vegetation throughout the area of this well.
- Analyses of the groundwater samples for Nitrate, Total Dissolved Solids (TDS) and numerous other inorganic parameters; and
- Analysis of the data, and preparation of this report.

4.0 SITE SETTING

4.1 - Site Surface Conditions

The site was formerly occupied by two diary operations separated by former agricultural fields. The dairies ceased operations in the first half of 2013. The site contains a few unoccupied residential homes, former dairy operations buildings (mostly demolished), some residual remnants of former livestock corrals, and former agricultural fields. Large portions of the site have become overgrown with vegetation.

Surface topography of the site is moderately flat, with a predominant downward slope to the north and northeast (i.e. toward the adjoining Mojave River wash). The site elevation is approximately 2,318 to 2,366 feet above mean sea level.

4.2 - Physiographic Setting

The Site is located in the relatively arid Mojave Desert, approximately 18 miles north of the City of Victorville, along the southern flood plain of the Mojave River. The general site region is characterized by a series of small desert mountain ranges and valleys through which the Mojave River passes. With the exception of the Mojave River, no major bodies of surface water (i.e. oceans, lakes, reservoirs, etc.) are known to exist within an approximate one-mile radius of the site (USGS, 1993).

According to measurements reported from a gauging station in Barstow (approximately 14 miles northeast of the site), the average annual rate of precipitation is approximately four inches (NOAA, 2002). During the past several years (2023-2024) precipitation has been more abundant than usual.

4.3 - Site Hydrogeology

Groundwater monitoring wells at the former N&M Dairy property are screened in the Recent and Young alluvium of the Floodplain Aquifer. Logs of the monitoring wells indicate the presence of finer texture sediments than is reported in general for the Floodplain Aquifer in the region. The well logs indicate that shallow aquifer deposits beneath the dairy consist primarily of: 1) clayey fine to coarse sands, 2) sands with trace silt, clay and gravel, and 3) fine sands with varying silt. The soils beneath the site are believed to be finer grained than typical for the larger area (along the Mojave River) because of the site's depositional setting on the inside of a gently curving bend in the river (see **Figure 1**).

The N&M Dairy monitoring well boring logs indicate that the groundwater bearing-zone is at least 30 feet thick (maximum depth drilled into the shallow groundwater). The depth to groundwater at the site during the current monitoring event ranged from approximately 15 to 45 feet, depending largely upon topography and corresponding well elevations. Groundwater is approximately 45 feet deep in the southwest corner of the site (topographically highest area of Site), and about 15 feet deep nearer the Mojave River in the northeastern-most portion of the site (topographically lowest area of Site).

5.0 RESULTS OF CURRENT GROUNDWATER MONITORING ACTIVITIES

Provided below is a summary of data collected during the groundwater monitoring activities completed on March 19, 2025. Details of the field procedures are provided in attached **Appendix A**.

5.1 - Older Field Markings vs. Actual Well Numbers

The responsible party (N&M Dairy) made field markings on the monument boxes of each monitoring well which do not correspond with the actual well designations which were given by the well installer (J&B Environmental - J&B 2002) and which are indicated on **Figure 2.** Consequently we note that samples collected by the responsible party pre-2004 may have used the field marking numbers instead of the actual well numbers on attached **Figure 2**. Below is a table which can be used to cross-reference and correct pre-2004 groundwater data, though it is noted that pre-2004 groundwater data is not included in this report:

Actual Well No. (See Figure 2)	Pre-2004 Field Marking on Monument Box
MW1	4
MW2	3
MW3	1
MW4	2

During the current groundwater monitoring event, all sample labeling was done in accordance with the actual well nos. indicated in table above, and shown on attached **Figure 2**.

5.2 - Current Groundwater Elevations, Flow Direction, Gradient and Velocity

On March 19, 2025, the depth to groundwater was measured in each well. A summary of the site-specific hydrogeologic data, based on measurements from the three of the four site monitoring wells, is provided below:

- **Approx. Depth to GW**: 18 to 43 feet (below site grade-bgs)
- **Average GW Elevation**: 2,325.58
- **Average Calculated GW Gradien**t: 0.00309 feet/foot (16.33 feet/mile).
- **Estimated GW Velocity**: 75 ft/year
  (V = hyd. cond. x 1/eff. porosity x hyd gradient) (fine sand assumed)
- **Average GW flow directio**n: Northeast
- **Change in Ave. GW Elev Since Last (10/2022)**: +12.94

The April 19, 2025 calculated shallow groundwater flow direction is shown graphically on attached **Figure 2**, along with the historical average flow direction calculated over the past couple of decades. The current flow direction is more slightly more northeasterly than the average historical flow direction of east-northeast.

Provided in attached **Table 1** are the April 18, 2025 groundwater elevation data. Also provided with **Table 1** is a hydrograph showing the historical trends of the average site groundwater elevation since 2004 (i.e. when AEM started on project).

5.3 - Field Groundwater Observations

During purging and sampling, observations of groundwater odor and discoloration were also collected; however, no unusual odors or discoloration were noted.

5.4 - Groundwater Sampling & Analytical Methods

On April 19, 2025 each monitoring well was purged and sampled in the following order from first to last: MW2, MW1 and MW3. Details of the well purging and sampling procedures are provided in attached **Appendix A**. Well MW4 was neither visible nor accessible due to overgrowth of chest-high vegetation throughout the area of this well. The area was not accessible to a vehicle or on foot. Future access to this

well will likely require heavy equipment (such as a front end loader) to clear a path and uncover the location of the well.

Groundwater samples were analyzed by ENVIRO-CHEM, INC., a State of California Department of Health Services certified laboratory. Groundwater samples were analyzed in general accordance with the following methods:

Analyte	Method No.
Alkalinity	SM 2320B
Calcium	EPA 200.7
Chloride	EPA 300.0
Copper	EPA 200.7
Electrical Conductivity (Sp Cond.)	SM 2510B
Fluoride	EPA 300.0
Hardness	EPA 200.7
Iron	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
MBAS	SM 5540C
Nitrate as N	SM 4500-NO_3^-E
pH	SM 4500-H^+B
Potassium	EPA 200.7
Sodium	EPA 200.7
Sulfate	EPA 300.0
Total Dissolved Solids	SM 2540C
Zinc	EPA 200.7

Field Measured Parameters: Temperature, pH, Electrical Conductivity, Dissolved Oxygen

5.5 - Analytical Results

Both current and prior historical groundwater sample analyses results are attached in **Table 2**. A laboratory report detailing the current (3/19/25) water sample analyses is provided in attached **Appendix B**. Following is a brief summary of the most notable analytical results from the current event:

- The reported Nitrate as N concentrations range from 0.7 to 4.8 mg/L. **All of these concentrations are significantly below its maximum contaminant level (mcl) of 10 mg/L**.

- Reported TDS concentrations in the groundwater samples range from 751 to 4,870 mg/L. The

sample from well MW1, near the former corrals, shows the highest TDS level at 4,870 mg/L. In contrast, the sample from well MW3, located at the down-gradient edge of the former dairy, contains 810 mg/L. **Based on both current and historical results, the most highly elevated TDS (in the area of well MW1) appears to be relatively isolated to this up-gradient portion of the former dairy, with no indication (either currently or historically) that groundwater containing TDS concentrations of this magnitude have migrated off site** (see **Table 2** and **Figure 2**).

5.6 Geographic Coordinates of Groundwater Monitoring Wells

Attached **Table 3** provides approximate latitude and longitude coordinates for all site wells, as determined with a publicly available handheld GPS unit. These GPS coordinates were requested by the RWQCB (via telephone) on April 21, 2010.

6.0 DISCUSSION OF RESULTS

6.1 - Current Nitrate & TDS Results Relative to Drinking Water Standards

The following observations are provided regarding nitrate & TDS concentrations relative to their drinking water standards (mcls):

- All current groundwater samples are reported to contain nitrate as N below its mcl.

- One groundwater sample (from Well MW1 near former corrals/milking barn in up-gradient portion of former dairy) has a TDS concentration of 4,870 mg/L, which is well above the secondary TDS mcls of 1,500/1000/500 mg/L (short term/upper/recommended). These secondary mcls are based on aesthetic factors such as taste, odor and appearance, not health risks. The other groundwater samples are reported to contain TDS at 751 mg/L (MW2) and 810 mg/L (MW3), similar to the secondary TDS mcls.

6.2 - Historical Trends of Nitrate & TDS in Groundwater

Graphs of historical Nitrate and TDS concentrations in the four individual groundwater monitoring wells are provided in attached **Appendix C**. It should be noted that these wells, when installed, were positioned in likely worst-case locations for detections of nitrates and TDS (i.e. adjoining/down gradient of former corrals, down gradient of former wastewater ponds, and in an agricultural field) (see **Figure 2**). A discussion of overall historical trends follow:

- **Well MW1 (up-gradient Site area near former corrals/milkbarn)**: Nitrate concentrations in

this well have shown no significant long term trends, except to stay relatively stable between a range of approximately 4 and 18 mg/L over the past 21 years. The current nitrate result in this well is 4.8 mg/L. TDS concentrations in this well have remained elevated between a concentration range of 3,000 to 7,000 mg/L over the past 21 years.

- **Well MW2 (up-gradient Site area near former dairy ponds)**: Fourteen years ago (in 2011), nitrate concentrations dropped below approximately 2.0 mg/L in this well, and have remained so until the present. At the same time TDS concentrations dropped below approximately 550 mg/L, and have also remained there to the present, with the exception of a current spike to 751 mg/L. This marked historical decrease in nitrate and TDS concentrations occurred in 2011, which is approximately two years before the dairy operations ceased.

- **Well MW3 (down gradient Site area near former dairy ponds)**: Nitrate concentrations in this well have had an overall decreasing trend for 21 years (since 2004), and have remained well below the nitrate mcl during the last 13 years (since 2012). The current nitrate concentration in this well is 5.0 mg/L. TDS concentrations in this well had an overall decreasing to stable trend over the last 21 years (since 2004).

- **Well MW4 (down gradient Site area in agricultural field)**: Nitrate concentrations have been decreasing in this well over the past 14 years (since 2011), and have been below the nitrate mcl for the past 11 years (since 2014). The current nitrate concentration in this well is unknown, as it could not be accessed during the current monitoring event. TDS concentrations in this well have been below approximately 600 mg/l during the past 12 years (since 2013).

It is again noted that the site monitoring wells were positioned in likely worst-case locations for detections of nitrates and TDS (i.e. adjoining/down gradient of former corrals, down gradient of former wastewater ponds, and in an agricultural field), consequently the results for these wells likely overstate the average concentration of nitrate and TDS in groundwater migrating beneath the former dairy property. **The historical site data and above discussed trends indicate the dairy property is not, and has not been, a source for elevated nitrate and TDS to off site groundwater for more than a decade.**

6.3 - Other Noted Historical TDS Trends

Following are other notable TDS trends related to the subject project:

- **MW1 an Isolated Source Area -** Despite there being historical elevated TDS concentrations in well MW1 ranging from approximately 3000 to 7,000 mg/L, this magnitude of TDS concentrations has not been detected (currently or historically) in any of the other dairy monitoring wells, including the two wells (MW3 and MW4) which are down-gradient of MW1 and generally at the

down gradient edge of the former dairy property. **The presence of elevated TDS in the area of MW1 (adjoining/down-gradient of a former corral/milking barn) appears to be a localized condition that is not affecting off site groundwater**.

- **Worst Case Maximum TDS Exiting Dairy Property** - The maximum TDS historically ever reported in either of the two down-gradient most dairy monitoring wells (MW3 and MW4) was 1,940 mgL. This was reported in well MW3 on 12/15/2005 (20 years ago), and is likely to be an outlier given the next highest reported historical TDS detections have been several hundred mg/l lower, in the 1,500-1,600 mg/L range. This concentration range is roughly equivalent to the TDS Short Term smcl (1,500 mg/L).

  Assuming groundwater with a historical maximum of 1,600 mg/L of TDS has migrated off the dairy property down-gradient, odit is not reasonable to assume that detected down gradient TDS concentrations greater than 1,600 mg/L could be wholly attributed to the dairy operations. And this is even based on the highly conservative assumption that this maximum represents all of the groundwater exiting the diary property (which is does not), and that there is no reduction of TDS due to dispersion and diffusion (which is highly unlikely). It is noted there have been numerous historical detections of TDS in off-site down-gradient domestic wells that are substantially greater than 1,600 mg/L, including up to 3,000 mg/L, indicating there are other very substantial sources of TDS down-gradient of the dairy.

6.4 - Groundwater Temperature Patterns

Attached **Figure 3** shows groundwater temperature contours based on data collected during the current monitoring event. The contours show a temperature gradient perpendicular to the river channel, indicating a predominant flow of cooler groundwater parallel to and beneath the immediate river channel. Or conversely, this shows the absence of substantial groundwater flow perpendicular to the immediate river channel. This temperature pattern has been monitored/observed for many years. Without significant groundwater flow perpendicular from the immediate active river channel, the potential for nitrate impacted groundwater exiting the dairy to impact wells substantially away from the immediate river channel is considered low, except during the short and sporadic periods in which there is substantial surface water flowing in the river channel (occurs only seasonally during winter, and only during some years).

6.5 - Typical Nitrate Concentrations at Dairies

In regards to Nitrate, a study conducted by the University of California at Davis in 2002 indicated that the average concentration of Nitrate as N in the shallowest groundwater zone beneath a study group of dairies in Northern California, was 64 mg/L (Harter et al., 2002). By contrast, the average, current nitrate

concentration in the diary monitoring wells is 3.5 mg/L.

6.6 - Forms of Nitrogen in Groundwater

In a typical rural setting, most organic nitrogen breaks down to ammonia, then nitrite, and then nitrate in the relatively more oxygen-rich vadose zone soil. Nitrate is the most stable form of nitrogen in typical groundwater zones (vs. nitrite, ammonia or organic nitrogen). Ammonia and nitrite are the least stable forms of nitrogen in groundwater, and are typically very short lived.

To assess the stability of the various nitrogen forms in groundwater beneath the dairy, monitoring well samples collected in March 2013 were analyzed for Total Nitrogen. This Total Nitrogen analysis reports concentrations of Ammonia, Nitrite, Nitrate and TKN. Organic nitrogen concentrations are derived by subtracting TKN results from ammonia results. Attached **Table 4** shows the nitrogen breakdown results for the analyzed groundwater samples. In summary, these data indicate that the vast majority of Nitrogen exists in the form of Nitrate within the groundwater beneath the study area.

7.0 RECOMMENDATIONS

Based on the data collected from the site, current regulatory guidelines, and our professional judgment, the following recommendations are presented:

- Nitrate and TDS concentrations in the former dairy groundwater monitoring wells have not changed significantly for over a decade, and the data indicate the isolated area of higher TDS near well MW1 is not impacting groundwater off-site.. The dairy has been out of operation since 2013 (12 years). Well MW4 is no longer visible or accessible due to overgrowth without help from heavy equipment to clear the area. There does not appear to be a significant, continued benefit to conducting groundwater monitoring in the former dairy monitoring wells. We recommend that CAO R6V-2013-0103 be amended to remove the requirement for continued monitoring of the former dairy property monitoring wells. If approved, these monitoring wells should be properly destroyed per County of San Bernardino and State of California Well Standards.

8.0 LIMITATIONS

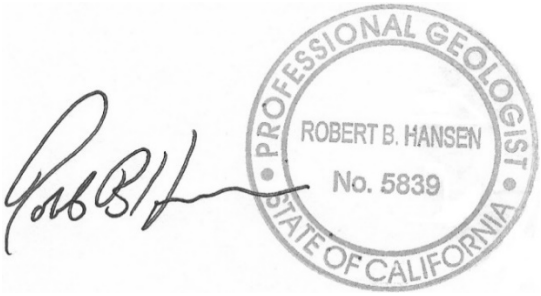
We have performed our services for this project in accordance with our agreement, and with current professional standards for the investigation of similar matters. No guarantees are either expressed or implied. Our investigation was limited to the evaluations indicated, and as a result, despite the use of reasonable care, may have failed to detect potentially hazardous substances. We assume no liability for conditions that did not come to our knowledge or were not specifically evaluated. Opinions and judgments expressed in this report are based on professional judgment and our understanding of

regulatory standards. These opinions and judgments are not legal opinions.

AEM prepared this report for the sole use and benefit of N&M DAIRY (client). The report documents a specific scope of work that **AEM** developed in consultation with client based on the client's unique needs. In addition, the report is subject to specific contractual and technical limitations to which the client has agreed. Not all of these limitations are set forth in this report. NO PERSON OR ENTITY OTHER THAN N&M DAIRY AND THE RWQCB MAY RELY ON THIS REPORT WITHOUT FIRST OBTAINING **AEM**'s EXPRESS WRITTEN PERMISSION.

The opportunity to be of service is greatly appreciated. If you have any further questions, please do not hesitate to contact our office at (909) 476-2120.

Very Truly Yours,
ALTA EM INC.



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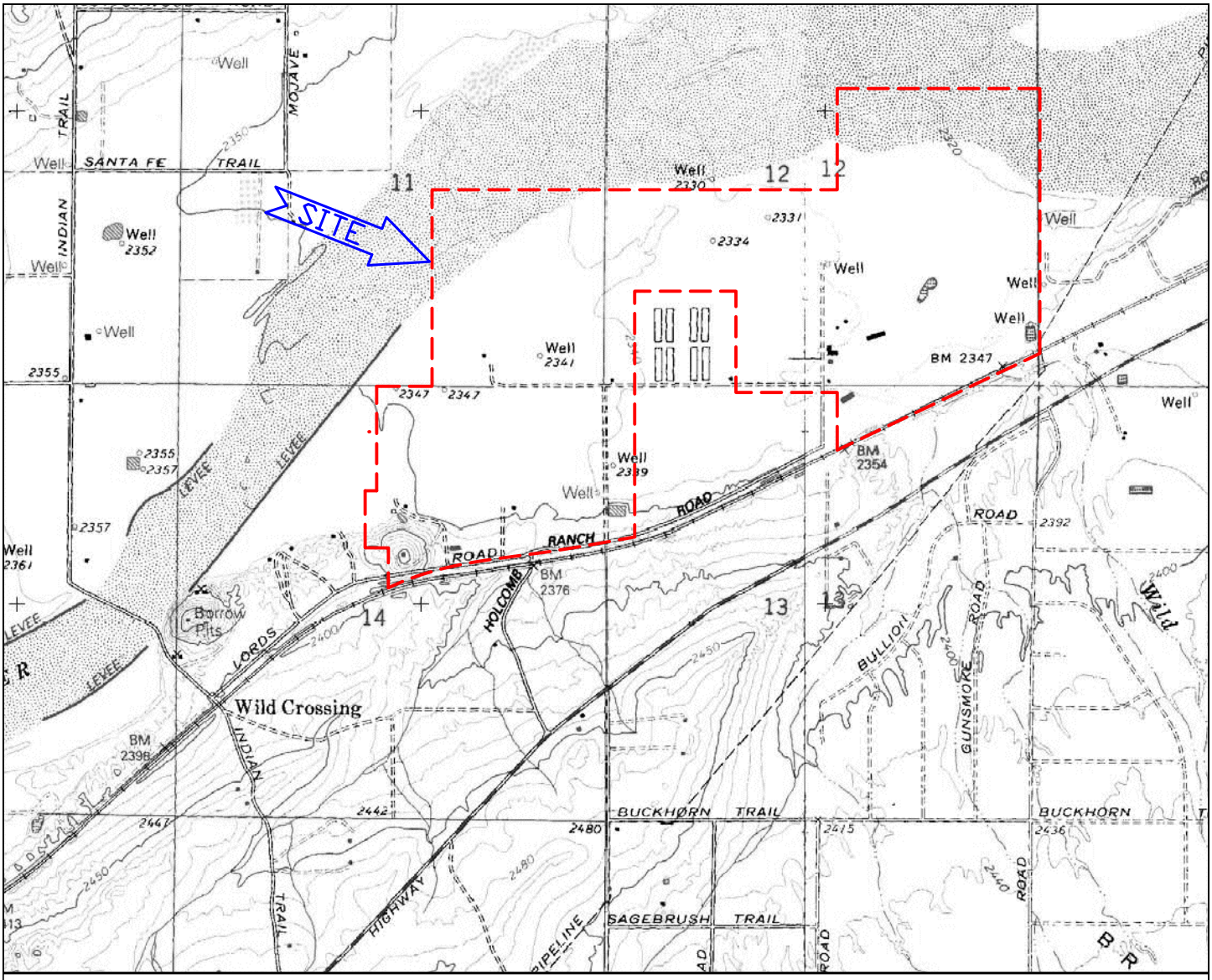

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SCALE, MILES

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NOTE:

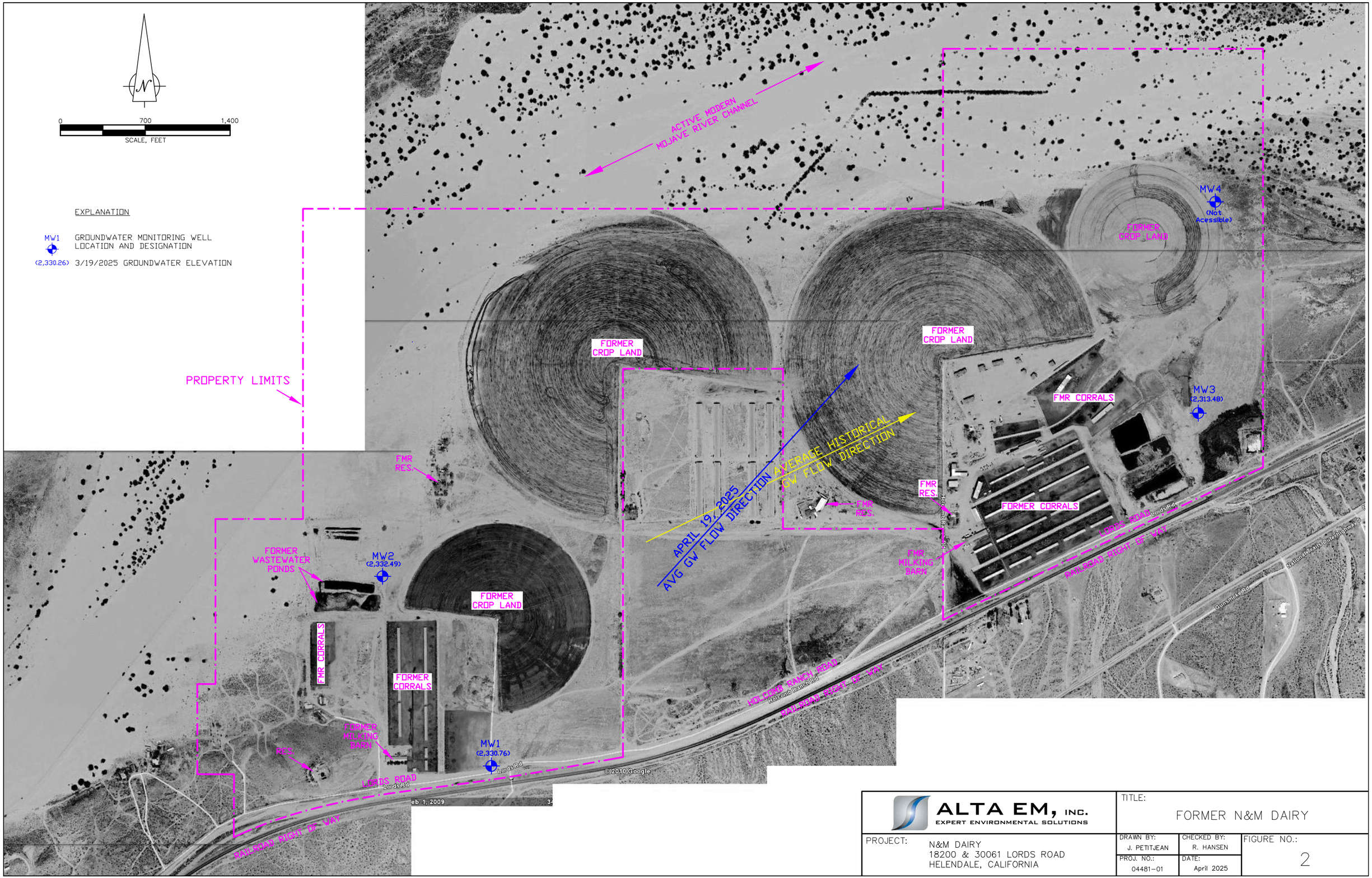
BASE MAP TAKEN FROM THE WILD CROSSING AND HODGE QUADRANGLES, CALIFORNIA, SAN BERNARDINO COUNTY, 7.5-MINUTE TOPOGRAPHIC MAPS, DATED 1993.

ALTA EM, INC.
EXPERT ENVIRONMENTAL SOLUTIONS

TITLE: SITE LOCATION MAP

PROJECT: N&M DAIRY
18200 & 18330 LORDS ROAD
HELENDALE, CALIFORNIA

DRAWN BY:	CHECKED BY:	FIGURE NO.:
J. PETITJEAN	R. HANSEN	1
PROJ. NO.: 04481-01	DATE: April 2025	

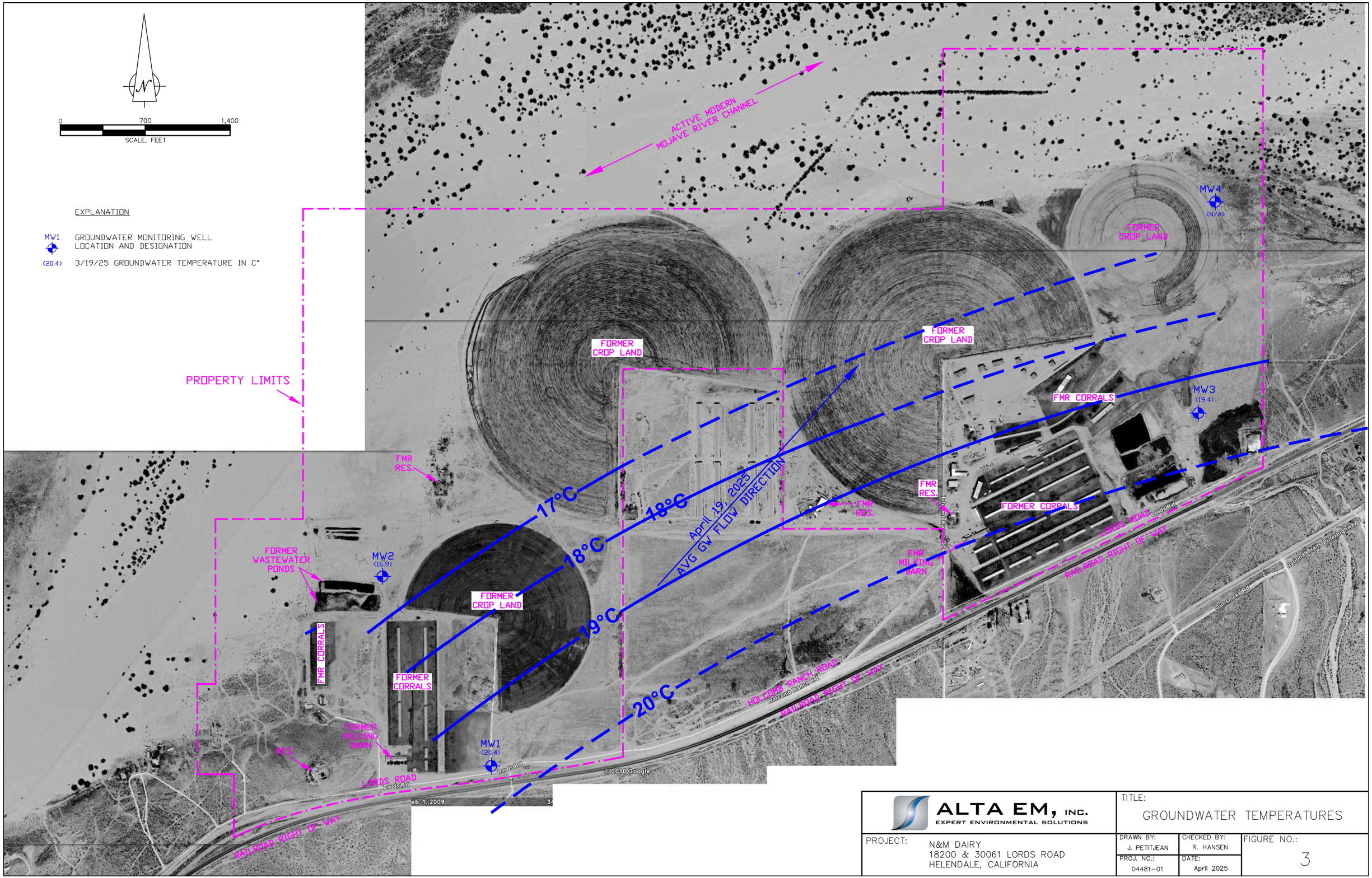


ALTA EM, INC.
EXPERT ENVIRONMENTAL SOLUTIONS

TITLE: FORMER N&M DAIRY

PROJECT: N&M DAIRY
18200 & 30061 LORDS ROAD
HELENDALE, CALIFORNIA

DRAWN BY:	CHECKED BY:	FIGURE NO.:
J. PETITJEAN	R. HANSEN	2
PROJ. NO.: 04481-01	DATE: April 2025	



ALTA EM, INC.
EXPERT ENVIRONMENTAL SOLUTIONS

TITLE: GROUNDWATER TEMPERATURES

PROJECT: N&M DAIRY
18200 & 30061 LORDS ROAD
HELENDALE, CALIFORNIA

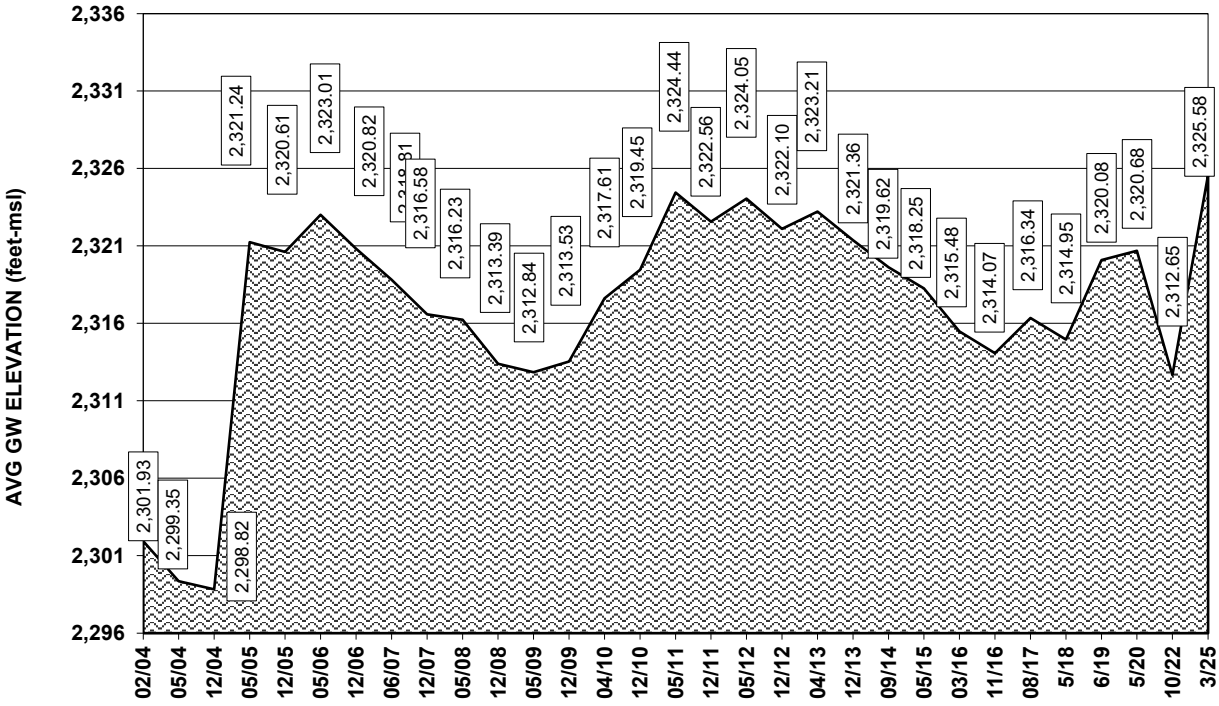
DRAWN BY:	CHECKED BY:	FIGURE NO.:
J. PETITJEAN	R. HANSEN	3
PROJ. NO.: 04481-01	DATE: April 2025	

TABLE 1

GROUNDWATER ELEVATION DATA & WELL CONSTRUCTIONS

WELL NO.	WELL R.P. ELEVATION [1] (feet)	3/19/25 DEPTH TO WATER[2] (feet)	3/19/25 GW ELEVATION (feet)	WELL DIAMETER (inches)	TOTAL DEPTH (feet)	SCREEN INTERVAL[3] (feet)
MW1	2,369.6	38.84	2,330.76	4	80	40 to 80
MW2	2,348.3	15.81	2,332.49	4	70	30 to 70
MW3	2,334.9	21.42	2,313.48	4	70	30 to 70
MW4	2,321.1	N/A	No Access	4	55	15 to 55
AVERAGE GROUNDWATER ELEVATION = 2,325.58						

HISTORICAL AVERAGE GROUNDWATER ELEVATIONS



1 Well Reference Point (R.P.) located at the top edge of PVC well casing, northern-most point (cap or plug removed). Surveyed in relation to Benchmark P-42: BR. DISK STMP'D P-42 1924 AT AT&SF RR & HOLCOMB RANCH RD. IN TOP NE OF SE CONC. HOW'L OF CONC. ARCH BRIDGE, 9.9' SE OF SE RAIL OF SE TRACK EL. = 2376.203 (76).

2 Depth to groundwater measured at the top edge of PVC well casing, northern-most point (cap or plug removed).

3 Based on data reported in J&B (2002).

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Nitrate as N	02/04/04	18.1	21.4	22.2	42.8	--- [1]	EPA 353.3	0.05	mg/L
	05/12/04	13.8	37.7	23.3	39.0	---			
	12/10/04	9.9	52.8	15.8	26.2	---			
	05/04/05	14.5	10.0	20.6	17.3	---			
	12/15/05	3.9	4.2	16.9	20.2	---			
	05/24/06	14.6	10.9	37.8	31.1	---			
	12/13/06	6.6	7.2	31.6	15.3	---			
	06/07/07	8.2	8.9	20.1	18.0	---			
	12/28/07	12.3	4.6	26.2	23.8	---			
	05/21/08	13.5	5.3	20.2	28.4	---			
	12/22/08	15.0	3.9	4.9	31.9	---			
	05/04/09	13.8	7.0	3.0	32.2	---			
	12/09/09	16.4	15.1	8.6	---	---			
	04/26/10	12.5	13.7	8.5	14.1	---			
	12/09/10	11.1	13.3	8.5	16.4	---	SM 4500-NO_3^-E		
	05/09/11	11.4	8.8	7.4	20.5	---			
	12/05/11	7.5	1.7	11.3	37.2	---			
	05/16/12	8.8	1.7	20.3	32.0	---			
	12/04/12	14.2	1.3	8.4	28.4	---			
	04/24/13	10.6	1.2	5.8	18.2	---			
	12/12/13*	1.3	1.4	3.7	13.6	ND [2]			
	09/15/14	9.1	0.9	1.3	5.8	---			
	05/02/15	14.6	1.0	1.1	4.2	---			
	03/08/16	11.6	1.0	2.5	2.4	0.1			
	11/10/16	13.7	0.9	1.3	1.9	---			
	08/11/17	12.2	2.0	2.2	2.8	---			
	05/24/18	11.2	0.7	1.4	1.5	0.1			
	06/16/19	10.3	1.5	3.0	1.9	---			
	05/13/20	9.6	0.4	2.1	2.5	---			
	10/28/22	9.4	0.5	0.8	0.9	---			
	03/19/25	**4.8**	**0.7**	**5.0**	**---**	**---**			
	Ave. Concen.	*11.1*	*7.8*	*11.2*	*18.3*	*0.1*			
Total Dissolved Solids	02/04/04	6,230	869	874	993	---	EPA 160.1	1	mg/L
	05/12/04	6,750	1,070	906	1,190	---			
	12/10/04	7,110	1,980	1,450	1,550	---			
	05/04/05	5,330	750	1,080	920	---			
	12/15/05	5,410	698	1,940	1,590	---			
	05/24/06	4,950	513	209	757	---			
	12/13/06	3,940	458	1,120	1,200	---			
	06/07/07	2,670	440	808	774	---			
	12/28/07	3,080	460	774	962	---			
	05/21/08	3,560	509	875	1,110	---			
	12/22/08	3,410	741	1,330	1,120	---			
	05/04/09	3,210	621	1,300	1,190	---			
	12/09/09	3,620	1,100	1,200	---	---			
	04/26/10	4,440	1,220	958	802	---			
	12/09/10	3,020	912	1,070	848	---	SM 2540C		
	05/09/11	3,230	508	1,100	852	---			
	12/05/11	3,180	526	1,040	926	---			
	05/16/12	3,120	442	841	904	---			
	12/04/12	3,710	458	796	804	---			
	04/24/13	2,590	498	613	607	---			
	12/12/13*	3,260	425	569	572	5			
	09/15/14	4,310	483	519	507	---			
	05/02/15	4,100	551	582	483	---			
	03/08/16	4,320	492	648	468	10			
	11/10/16	4,420	498	673	424	---			
	08/11/17	6,740	496	680	448	---			
	05/24/18	4,580	494	631	434	7			
	06/16/19	4,650	547	652	473	---			
	05/13/20	2,950	335	369	362	---			
	10/28/22	5,360	556	564	459	---			
	03/19/25	**4,870**	**751**	**810**	**---**	**---**			
	Ave. Concen.	*4,262*	*658*	*870*	*818*	*7*			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Total Alkalinity Bicarbonate / Carbonate / Hydroxide	02/04/04	503	404	356	200	---	EPA 310.1	1	mg/L
		503 / ND / ND	404 / ND / ND	356 / ND / ND	200 / ND / ND	---			
	05/12/04	188	370	339	220	---			
		188 / ND / ND	370 / ND / ND	339 / ND / ND	220 / ND / ND	---			
	12/10/04	196	432	404	246	---			
		196 / ND / ND	432 / ND / ND	404 / ND / ND	246 / ND / ND	---			
	05/04/05	160	192	257	113	---			
		160 / ND / ND	192 / ND / ND	257 / ND / ND	113 / ND / ND	---			
	12/15/05	165	280	375	326	---			
		165 / ND / ND	280 / ND / ND	375 / ND / ND	326 / ND / ND	---			
	05/24/06	160	220	290	163	---			
		160 / ND / ND	220 / ND / ND	290 / ND / ND	163 / ND / ND	---			
	12/13/06	166	190	293	253	---			
		166 / ND / ND	190 / ND / ND	293 / ND / ND	253 / ND / ND	---			
	06/07/07	162	188	291	204	---			
		162 / ND / ND	188 / ND / ND	291 / ND / ND	204 / ND / ND	---			
	12/28/07	157	182	250	202	---			
		157 / ND / ND	182 / ND / ND	250 / ND / ND	202 / ND / ND	---			
	05/21/08	192	199	364	210	---			
		192 / ND / ND	199 / ND / ND	364 / ND / ND	210 / ND / ND	---			
	12/22/08	208	194	351	198	---			
		208 / ND / ND	194 / ND / ND	351 / ND / ND	198 / ND / ND	---			
	05/04/09	214	198	343	204	---			
		214 / ND / ND	198 / ND / ND	343 / ND / ND	204 / ND / ND	---			
	12/09/09	204	186	252	---	---			
		204 / ND / ND	186 / ND / ND	252 / ND / ND	--- / --- / ---	---			
	04/26/10	178	253	283	170	---			
		178 / ND / ND	253 / ND / ND	283 / ND / ND	170 / ND / ND	---			
	12/09/10	200	226	260	198	---	SM 2320B		
		200 / ND / ND	226 / ND / ND	260 / ND / ND	198 / ND / ND	---			
	05/09/11	218	202	242	194	---			
		218 / ND / ND	202 / ND / ND	242 / ND / ND	194 / ND / ND	---			
	12/05/11	200	186	228	200	---			
		200 / ND / ND	186 / ND / ND	228 / ND / ND	200 / ND / ND	---			
	05/16/12	202	176	222	202	---			
		202 / ND / ND	176 / ND / ND	222 / ND / ND	202 / ND / ND	---			
	12/04/12	220	176	204	184	---			
		220 / ND / ND	176 / ND / ND	204 / ND / ND	184 / ND / ND	---			
	04/24/13	129	172	248	168	---			
		12/12/13*	172 / ND / ND	248 / ND / ND	168 / ND / ND	---			
	12/12/13*	178	174	238 / 224	168	2.02			
		178 / ND / ND	174 / ND / ND	238 / ND / ND	168 / ND / ND	2.02 / ND / ND			
	09/15/14	166	188	214	172	---			
		166 / ND / ND	188 / ND / ND	214 / ND / ND	172 / ND / ND	---			
	05/02/15	198	224	230	210	---			
		198 / ND / ND	224 / ND / ND	230 / ND / ND	210 / ND / ND	---			
	03/08/16	188	182	204	182	1.98			
		188 / ND / ND	182 / ND / ND	204 / ND / ND	182 / ND / ND	1.98 / ND / ND			
	11/10/16	188	208	222	147	1.98			
		188 / ND / ND	208 / ND / ND	222 / ND / ND	147/ ND / ND	1.98 / ND / ND			
	08/11/17	158	220	218	162	---			
		158/ ND / ND	200/ ND / ND	218/ ND / ND	162/ ND / ND	---			
	05/24/18	186	208	182	160	4			
		186/ ND / ND	208/ ND / ND	182/ ND / ND	160/ ND / ND	4 / ND / ND			
	06/16/19	190	202	184	162	---			
		190/ ND / ND	202/ ND / ND	184/ ND / ND	162/ ND / ND	---			
	05/13/20	97	176	158	164	---			
		97/ ND / ND	176/ ND / ND	158/ ND / ND	164/ ND / ND	---			
	10/28/22	170	218	178	168	---			
		170/ ND / ND	218/ ND / ND	178/ ND / ND	168/ ND / ND	---			
	03/19/25	**152**	**212**	**206**	**---**	**---**			
		152/ ND / ND	**212/ ND / ND**	**206/ ND / ND**	**--- / --- / ---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Bromide	02/04/04	1.00	ND	ND	ND	---	EPA 320.1	1	mg/L
	05/12/04	ND	ND	0.91[J]	ND	---			
	12/10/04	ND	ND	0.06	ND	---			
	05/04/05	2.30	ND	ND	ND	---			
	12/15/05	1.80	ND	ND	ND	---			
	05/24/06	2.10	ND	ND	ND	---			
	12/13/06	2.37	0.12	0.34	0.26	---	EPA 300.0	0.01	
	06/07/07	2.10	ND	ND	ND	---		0.5	
	12/28/07	2.60	ND	ND	ND	---			
	05/21/08	2.40	ND	ND	ND	---			
	12/22/08	2.40	ND	ND	ND	---			
	05/04/09	2.58	ND	ND	ND	---			
	12/09/09	1.75	ND	ND	---	---			
	04/26/10	2.22	2.19	1.29	0.60	---			
	12/09/10	0.79	0.40	0.63	ND	---			
	05/09/11	2.35	ND	ND	ND	---			
	12/05/11	2.78	ND	ND	ND	---			
	05/16/12	2.36	ND	ND	ND	---			
	12/04/12	2.38	ND	ND	ND	---			
	04/24/13	2.64	ND	ND	ND	---			
	12/12/13	2.01	ND	ND / ND	ND	ND			
	09/15/14	12.40	ND	0.70	ND	---			
	05/02/15	2.50	ND	0.15	0.11	---			
	03/08/16	2.30	0.12	0.19	0.12	ND			
	11/10/16	ND	ND	ND	ND	---			
Calcium	02/04/04	94	156	133	127	---	EPA 6010B	0.10	mg/L
	05/12/04	876	136	104	134	---			
	12/10/04	578	166	91	107	---			
	05/04/05	708	65	93	77	---			
	12/15/05	962	64	224	188	---			
	05/24/06	803	82	152	128	---			
	12/13/06	693	63	140	164	---	EPA 200.7		
	06/07/07	891	87	140	144	---			
	12/28/07	700	41	77	150	---			
	05/21/08	849	74	159	227	---			
	12/22/08	717	57	196	141	---			
	05/04/09	841	88	246	183	---			
	12/09/09	819	108	200	---	---			
	04/26/10	712	108	124	110	---			
	12/09/10	749	62	135	90	---			
	05/09/11	621	44	110	74	---			
	12/05/11	645	45	83	124	---			
	05/16/12	846	58	128	158	---			
	12/04/12	626	43	86	78	---			
	04/24/13	728	52	68	82	---			
	12/12/13*	710	84	105 / 108	103	0.320			
	09/15/14	744	62	66	61	---			
	05/02/15	660	53	54	43	---			
	03/08/16	823	49	78	48	2			
	11/10/16	758	55	85	46	---			
	08/11/17	720	63	5	52	---			
	05/24/18	780	63	61	53	1			
	06/16/19	670	52	58	43	---			
	05/13/20	698	63	65	68	---			
	10/28/22	1250	62	66	54	---			
	03/19/25	**593**	**51**	**63**	**---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Chloride	02/04/04	2,250	108	133	165	---	EPA 325.3	1	mg/L
	05/12/04	2,100	150	133	196	---			
	12/10/04	2,140	286	214	200	---			
	05/04/05	1,830	190	150	110	---			
	12/15/05	1,570	104	284	241	---			
	05/24/06	1,440	71	172	138	---			
	12/13/06	1,540	71	194	209	---			
	06/07/07	2,030	107	197	186	---			
	12/28/07	2,680	91	132	210	---			
	05/21/08	1,790	82	182	281	---			
	12/22/08	1,720	80	191	201	---			
	05/04/09	2,230	84	270	289	---			
	12/09/09	2,140	178	278	---	---			
	04/26/10	3,180	159	169	198	---			
	12/09/10	1,780	129	198	188	---	SM 4500-Cl⁻C		
	05/09/11	1,690	81	219	209	---			
	12/05/11	1,840	69	252	330	---			
	05/16/12	1,890	75	209	307	---			
	12/04/12	2,080	87	188	218	---			
	04/24/13	1,670	81	108	122	---			
	12/12/13*	2,290	87	107 / 107	122	ND			
	09/15/14	1,500	92	105	95	---			
	05/02/15	1,950	83	100	80	---			
	03/08/16	1,930	124	174	114	ND			
	11/10/16	3,200	125	180	105	---			
	08/11/17	2,410	50	119	40	---			
	05/24/18	2,250	93	112	81	1.5			
	06/16/19	2,300	105	115	88	---			
	05/13/20	1,950	120	150	130	---			
	10/28/22	4,100	150	140	110	---			
	03/19/25	**1,630**	**94**	**101**	**---**	**---**	EPA 300.0	0.20	
Flouride	02/04/04	0.26	0.57	0.19	0.50	---	EPA 340.2	0.10	mg/L
	05/12/04	0.21	0.26	0.59	0.50	---			
	12/10/04	0.23	0.29	0.65	0.58	---			
	05/04/05	0.11	0.17	0.20	0.21	---			
	12/15/05	0.22	0.31	0.53	0.45	---			
	05/24/06	0.17	0.27	0.58	0.45	---			
	12/13/06	0.25	0.34	0.44	0.37	---			
	06/07/07	0.33	0.18	0.25	0.21	---			
	12/28/07	0.23	0.20	0.16	0.20	---			
	05/21/08	0.13	0.19	0.61	0.24	---			
	12/22/08	0.28	0.39	1.06	0.58	---			
	05/04/09	0.27	0.37	0.35	0.45	---			
	12/09/09	0.15	ND	0.58	---	---			
	04/26/10	0.13	ND	0.19	0.14	---			
	12/09/10	0.19	0.33	0.72	0.67	---	SM 4500-F⁻B		
	05/09/11	ND	ND	ND	ND	---			
	12/05/11	0.17	0.14	0.31	0.15	---			
	05/16/12	0.17	0.26	0.50	0.30	---			
	12/04/12	ND	0.41	0.85	0.54	---			
	04/24/13	0.12	0.45	0.87	0.63	---			
	12/12/13*	0.12	0.57	1.14 / 1.14	0.81	0.02			
	09/15/14	ND	ND	ND	0.39	---			
	05/02/15	0.94	0.51	1.04	0.71	---			
	03/08/16	0.14	0.48	0.93	0.57	ND			
	11/10/16	ND	0.44	0.85	0.65	---			
	08/11/17	ND	0.60	0.83	0.85	---			
	05/24/18	0.78	0.58	0.98	0.73	ND			
	06/16/19	0.56	0.42	0.60	0.67	---			
	05/13/20	0.34	0.44	0.90	0.50	---			
	10/28/22	ND	0.37	0.60	0.59	---			
	03/19/25	**1.18**	**0.72**	**1.26**	**---**	**---**	EPA 300.0	0.20	

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Orthophosphate as P	02/04/04	0.03	0.07	0.06	0.04	---	EPA 365.2	0.02	mg/L
	05/12/04	ND	0.04	0.06	0.03	---			
	12/10/04	ND	0.09	0.06	0.03	---			
	05/04/05	0.016[J]	0.32	0.06	0.51	---		0.03	
	12/15/05	0.03	0.16	0.08	0.05	---			
	05/24/06	ND	0.15	0.08	0.04	---		0.02	
	12/13/06	ND	0.14	0.06	0.03	---			
	06/07/07	ND	0.14	0.07	0.05	---		0.05	
	12/28/07	ND	0.14	0.07	0.03	---	SM4500-P-E	0.02	
	05/21/08	ND	0.14	0.06	0.05	---			
	12/22/08	ND	0.13	0.08	ND	---			
	05/04/09	ND	0.13	0.22	0.04	---			
	12/09/09	ND	0.14	0.10	---	---			
	04/26/10	0.02	ND	0.07	0.04	---			
	12/09/10	ND	0.15	0.11	0.05	---			
	05/09/11	ND	0.15	0.16	0.06	---			
	12/05/11	0.06	ND	0.16	0.23	---			
	05/16/12	0.02	0.15	0.18	0.05	---			
	12/04/12	ND	0.17	0.55	0.21	---			
	04/24/13	ND	0.13	0.18	0.06	---			
	12/12/13	ND	0.42	0.64 / 0.64	0.22	ND			
	09/15/14	ND	0.15	0.23	0.08	---			
	05/02/15	0.23	0.18	0.28	0.13	---			
	03/08/16	0.22	0.30	0.20	0.18	ND			
	11/10/16	ND	0.18	0.19	ND	---			
	06/16/19	ND	ND	ND	ND	---	EPA 300	1	
	05/13/20	ND	ND	ND	ND	---			
	10/28/22	---	---	---	---	---			
	03/19/25	**ND**	**ND**	**ND**	**---**	**---**			
Potassium	02/04/04	7.2	4.9	4.4	4.5	---	EPA 258.1	0.10	mg/L
	05/12/04	10.0	5.0	4.4	5.8	---			
	12/10/04	12.5	11.4	7.0	7.8	---			
	05/04/05	9.4	15.0	4.5	4.9	---			
	12/15/05	9.4	10.1	39.0	17.5	---			
	05/24/06	8.1	7.9	24.3	7.5	---			
	12/13/06	7.6	7.3	18.6	17.0	---			
	06/07/07	8.7	7.9	14.9	10.3	---			
	12/28/07	16.8	13.7	30.4	18.9	---			
	05/21/08	7.9	7.5	13.8	12.0	---			
	12/22/08	6.0	6.2	32.6	7.7	---			
	05/04/09	7.8	7.1	48.6	8.9	---			
	12/09/09	6.5	6.9	38.2	---	---			
	04/26/10	5.5	8.7	6.8	3.6	---			
	12/09/10	5.2	7.1	7.0	38.9	---			
	05/09/11	5.8	7.3	62.6	37.9	---			
	12/05/11	6.3	7.8	50.1	36.3	---			
	05/16/12	5.7	6.3	42.7	22.8	---			
	12/04/12	4.4	5.7	30.7	15.4	---			
	04/24/13	5.9	5.8	32.1	13.0	---			
	12/12/13*	7.4	7.5	24.8 / 24.9	15.1	0.213			
	09/15/14	7.3	6.0	13.0	8.8	---			
	05/02/15	6.2	5.2	11.1	6.0	---			
	03/08/16	5.5	10.5	5.6	7.2	0.1			
	11/10/16	6.1	4.8	7.3	4.3	---			
	08/11/17	7.3	5.5	8.3	4.7	---			
	05/24/18	7.9	5.5	6.8	4.1	0.2	EPA 200.7	0.05	
	06/16/19	9.1	5.2	7.3	5.8	0.2			
	05/13/20	9.3	4.4	7.2	6.3	---			
	10/28/22	25.7	4.7	5.0	4.7	---			
	03/19/25	**9.8**	**4.2**	**7.9**	**---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Sodium	02/04/04	667	98	160	130	---	EPA 200.7	0.1	mg/L
	05/12/04	738	121	175	168	---			
	12/10/04	596	163	182	153	---			
	05/04/05	655	100	149	113	---			
	12/15/05	616	119	323	239	---			
	05/24/06	513	90	212	134	---			
	12/13/06	443	71	150	189	---			
	06/07/07	556	83	169	102	---			
	12/28/07	374	38	100	122	---			
	05/21/08	596	79	162	294	---			
	12/22/08	564	64	203	145	---			
	05/04/09	605	80	183	118	---			
	12/09/09	582	128	192	---	---			
	04/26/10	482	102	134	108	---			
	12/09/10	461	68	146	148	---			
	05/09/11	459	63	154	137	---			
	12/05/11	452	69	152	233	---			
	05/16/12	536	89	184	215	---			
	12/04/12	487	69	121	140	---			
	04/24/13	446	72	97	136	---			
	12/12/13*	568	113	161 / 159	171	0.717			
	09/15/14	472	76	87	89	---			
	05/02/15	463	79	84	72	---			
	03/08/16	617	74	100	74	1.8			
	11/10/16	552	80	105	75	---			
	08/11/17	601	93	108	81	---			
	05/24/18	643		86	83	1.6			
	06/16/19	486	92	104	81	---			
	05/13/20	351	91	90	87	---			
	10/28/22	562	56	60	39	---			
	03/19/25	**325**	**84**	**82**	**---**	**---**			
Copper	02/04/04	0.087	0.068	0.053	0.192	---	EPA 200.7	0.02	mg/L
	05/12/04	ND	ND	ND	0.037	---			
	12/10/04	ND	ND	ND	ND	---			
	05/04/05	ND	ND	ND	ND	---			
	12/15/05	ND	ND	ND	ND	---			
	05/24/06	ND	ND	ND	ND	---			
	12/13/06	0.121	0.033	0.058	0.061	---			
	06/07/07	ND	ND	ND	ND	---			
	12/28/07	0.021	0.024	0.052	0.028	---			
	05/21/08	0.094	0.074	0.070	0.084	---			
	12/22/08	ND	ND	ND	ND	---			
	05/04/09	ND	ND	ND	ND	---			
	05/09/11	ND	ND	ND	---	---			
	04/26/10	ND	ND	ND	ND	---			
	12/09/10	ND	ND	0.024	0.019	---			
	05/09/11	0.042	0.058	0.053	0.054	---			
	12/05/11	ND	ND	ND	ND	---			
	05/16/12	ND	ND	ND	ND	---			
	12/04/12	ND	ND	ND	ND	---			
	04/24/13	ND	ND	ND	ND	---			
	12/12/13*	ND	ND	ND / ND	ND	ND			
	09/15/14	0.002	ND	0.020	ND	---			
	05/02/15	ND	ND	ND	**ND**	---			
	03/08/16	ND	ND	ND	ND	ND			
	11/10/16	ND	ND	ND	ND	---			
	08/11/17	ND	ND	ND	ND	---			
	05/24/18	ND	ND	ND	ND	0.072			
	06/16/19	0.0	ND	ND	ND	---			
	05/13/20	ND	ND	ND	ND	---			
	10/28/22	0.043	ND	ND	ND	---			
	03/19/25	**ND**	**ND**	**ND**	**---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Iron	02/04/04	ND	0.393	0.834	ND	---	EPA 200.7	0.10	mg/L
	05/12/04	ND	ND	ND	ND	---			
	12/10/04	ND	ND	ND	ND	---			
	05/04/05	ND	ND	ND	ND	---			
	12/15/05	ND	ND	ND	ND	---			
	05/24/06	ND	ND	ND	ND	---			
	12/13/06	0.123	ND	0.559	0.061	---			
	06/07/07	0.278	0.159	ND	0.226	---			
	12/28/07	ND	ND	ND	ND	---			
	05/21/08	0.375	0.072	0.180	0.096	---			
	12/22/08	ND	0.311	1.830	ND	---			
	05/04/09	0.409	0.117	2.080	ND	---			
	12/09/09	0.545	0.146	9.840	---	---			
	04/26/10	ND	ND	ND	ND	---			
	12/09/10	ND	ND	0.721	0.099	---			
	05/09/11	0.587	0.129	ND	0.245	---			
	12/05/11	0.154	0.102	ND	ND	---			
	05/16/12	ND	0.113	ND	ND	---			
	12/04/12	ND	ND	ND	ND	---			
	04/24/13	0.154	0.434	ND	ND	---			
	12/12/13*	ND	0.159	ND / ND	ND	ND			
	09/15/14	0.127	0.120	0.110	ND	---			
	05/02/15	ND	0.171	0.124	ND	---			
	03/08/16	0.283	0.238	0.427	ND	ND			
	11/10/16	0.133	0.208	ND	ND	---			
	08/11/17	ND	0.102	ND	0.326	---			
	05/24/18	0.112	ND	0.566	ND	0.177			
	06/16/19	0.299	ND	ND	ND	---			
	05/13/20	ND	0.273	0.104	0.167	---			
	10/28/22	6.52	0.159	0.193	0.135	---			
	03/19/25	**0.14**	**0.138**	**ND**	**---**	**---**			
Magnesium	02/04/04	163	28	27	29	---	EPA 200.7	0.10	mg/L
	05/12/04	152	29	22	32	---			
	12/10/04	129	46	26	32	---			
	05/04/05	129	16	18	18	---			
	12/15/05	129	22	59	43	---			
	05/24/06	117	16	33	25	---			
	12/13/06	98	12	29	36	---			
	06/07/07	132	17	27	29	---			
	12/28/07	92	8	17	28	---			
	05/21/08	122	14	28	41	---			
	12/22/08	110	12	43	29	---			
	05/04/09	131	18	57	39	---			
	12/09/09	128	25	45	---	---			
	04/26/10	111	21	22	20	---			
	12/09/10	110	12	31	22	---			
	05/09/11	107	10	31	22	---			
	12/05/11	116	11	25	38	---			
	05/16/12	128	9	31	37	---			
	12/04/12	99	9	21	20	---			
	04/24/13	118	11	17	21	---			
	12/12/13*	185	17	24.9 / 25.2	26	ND			
	09/15/14	116	12	15	14	---			
	05/02/15	113	12	14	11	---			
	03/08/16	140	11	19	12	0.3			
	11/10/16	121	11	18	11	---			
	08/11/17	147	12	15	11	---			
	05/24/18	150	12	12	11	0.3			
	06/16/19	102	11	12	9	---			
	05/13/20	108	9	13	14	---			
	10/28/22	221	14	15	13	---			
	03/19/25	**88**	**9**	**12**	**---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Manganese	02/04/04	0.02	0.28	0.61	ND	---	EPA 200.7	0.01	mg/L
	05/12/04	ND	ND	ND	ND	---			
	12/10/04	0.01	0.07	0.01	ND	---			
	05/04/05	ND	ND	ND	ND	---			
	12/15/05	ND	ND	ND	ND	---			
	05/24/06	ND	ND	ND	ND	---			
	12/13/06	0.02	0.02	0.26	ND	---			
	06/07/07	ND	0.04	0.21	ND	---			
	12/28/07	ND	ND	0.18	ND	---			
	05/21/08	ND	ND	ND	ND	---			
	12/22/08	ND	0.54	2.73	ND	---			
	05/04/09	0.02	0.04	3.01	ND	---			
	12/09/09	0.02	0.08	2.33	---	---			
	04/26/10	ND	0.11	0.43	ND	---			
	12/09/10	ND	0.17	2.54	ND	---			
	05/09/11	0.02	0.13	1.30	ND	---			
	12/05/11	ND	0.25	1.45	ND	---			
	05/16/12	ND	0.15	1.19	ND	---			
	12/04/12	ND	0.19	1.23	ND	---			
	04/24/13	ND	0.21	0.88	ND	---			
	12/12/13*	ND	ND	1.12 / 1.14	ND	ND			
	09/15/14	ND	0.15	0.72	ND	---			
	05/02/15	ND	0.15	0.61	ND	---			
	03/08/16	ND	0.14	0.51	ND	ND			
	11/10/16	ND	ND	0.44	ND	---			
	08/11/17	ND	0.06	0.33	0.02	---			
	05/24/18	ND	ND	0.17	ND	ND			
	06/16/19	0.26	0.04	0.04	ND	---			
	05/13/20	0.05	0.10	0.04	ND	---			
	10/28/22	1.88	0.05	0.02	ND	---			
	03/19/25	**ND**	**0.17**	**ND**	**---**	**---**			
Zinc	02/04/04	0.221	0.208	0.161	0.334	---	EPA 200.7	0.01	mg/L
	05/12/04	0.050	0.066	0.050	0.071	---			
	12/10/04	0.075	0.051	0.033	0.040	---			
	05/04/05	0.020	0.019	0.016	0.013	---			
	12/15/05	ND	ND	ND	ND	---			
	05/24/06	0.072	0.057	0.073	0.083	---			
	12/13/06	0.072	0.125	0.113	0.070	---			
	06/07/07	0.068	0.038	0.033	0.033	---			
	12/28/07	0.040	0.041	0.045	0.044	---			
	05/21/08	ND	ND	ND	ND	---			
	12/22/08	ND	ND	ND	ND	---			
	05/04/09	ND	ND	ND	ND	---			
	12/09/09	ND	ND	ND	---	---			
	04/26/10	ND	ND	ND	ND	---			
	12/09/10	0.081	ND	0.035	0.025	---			
	05/09/11	0.010	ND	ND	ND	---			
	12/05/11	0.238	0.029	0.023	0.026	---			
	05/16/12	ND	0.021	0.043	0.016	---			
	12/04/12	ND	ND	ND	ND	---			
	04/24/13	0.013	0.041	0.051	0.034	---			
	12/12/13*	ND	ND	0.015 / 0.019	ND	ND			
	09/15/14	0.024	0.018	0.019	0.014	---			
	05/02/15	0.013	0.014	0.011	ND	---			
	03/08/16	0.049	0.035	0.041	0.053	0.05			
	11/10/16	0.070	0.058	0.072	0.066	---			
	08/11/17	0.020	0.029	0.055	0.017	---			
	05/24/18	0.010	ND	ND	0.014	0.05			
	06/16/19	ND	ND	ND	ND	--			
	05/13/20	ND	ND	ND	ND	--			
	10/28/22	1.250	0.015	0.010	0.010	--			
	03/19/25	**ND**	**0.018**	**ND**	**---**	**--**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Sulfate	02/04/04	1,220	86	139	169	---	EPA 375.3	1	mg/L
	05/12/04	1,250	107	109	119	---			
	12/10/04	1,090	60	61	106	---			
	05/04/05	1,260	71	129	88	---			
	12/15/05	1,540	67	224	409	---			
	05/24/06	1,250	45	306	287	---			
	12/13/06	1,130	203	379	697	---			
	06/07/07	1,640	106	232	248	---			
	12/28/07	2,090	98	189	272	---			
	05/21/08	1,360	111	121	290	---			
	12/22/08	1,360	91	85	326	---			
	05/04/09	1,440	90	79	298	---			
	12/09/09	2,590	117	138	---	---			
	04/26/10	2,540	101	159	173	---			
	12/09/10	1,810	87	201	289	---	SM 4500-SO_4^{2-}D		
	05/09/11	1,320	64	153	181	---			
	12/05/11	1,040	83	189	255	---			
	05/16/12	925	106	202	304	---			
	12/04/12	1,250	99	151	241	---			
	04/24/13	560	109	126	169	---			
	12/12/13*	704	91	116 / 115	155	ND			
	09/15/14	849	70	90	81	---			
	05/02/15	721	60	86	73	---			
	03/08/16	853	99	200	93	ND			
	11/10/16	1120	91	190	82	---			
	08/11/17	1120	218	152	72	---			
	05/24/18	908	87	131	81	ND			
	06/16/19	817	78	126	73	---			
	05/13/20	429	60	105	99	---			
	10/28/22	931	87	100	69	---			
	03/19/25	**388**	**70**	**91**	**---**	**---**			
Specific Conductance	02/04/04	8,190	1,270	1,420	1,510	---	EPA 120.1	5	umhos/cm
	05/12/04	8,270	1,670	1,490	1,740	---			
	12/10/04	9,470	2,670	1,990	2,100	---			
	05/04/05	7,620	1,030	1,490	1,240	---			
	12/15/05	5,720	989	2,190	1,930	---			
	05/24/06	5,480	756	1,530	1,080	---			
	12/13/06	5,740	700	1,610	1,850	---			
	06/07/07	3,880	751	1,180	1,160	---			
	12/28/07	6,150	894	1,130	1,660	---			
	05/21/08	5,700	828	1,380	1,780	---			
	12/22/08	6,650	1,320	2,350	1,870	---			
	05/04/09	6,370	983	2,320	1,830	---			
	12/09/09	6,450	1,660	2,040	---	---			
	04/26/10	7,040	1,710	1,380	1,230	---			
	12/09/10	5,200	1,210	1,810	1,450	---	SM 2510B		
	05/09/11	5,030	771	1,660	1,290	---			
	12/05/11	5,290	810	1,580	1,520	---			
	05/16/12	5,510	655	1,300	1,520	---			
	12/04/12	6,030	706	1,280	1,300	---			
	04/24/13	4,080	840	945	936	---			
	12/12/13*	5,560	680	915 / 902	913	6.64			
	09/15/14	6,710	771	849	834	---			
	05/02/15	7,120	909	973	805	---			
	03/08/16	7,340	843	1060	767	21.8			
	11/10/16	7,500	838	1130	737	---			
	08/11/17	11,400	1460	1750	1090	---			
	05/24/18	7,890	849	1030	770	14.8			
	06/16/19	7,260	877	1020	766	---			
	05/13/20	4,260	475	524	510	---			
	10/28/22	8,600	869	875	728	---			
	03/19/25	**7,810**	**1210**	**1350**	**---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Total Hardness	02/04/04	906	506	443	438	---	EPA 200.7	1	mg/L
	05/12/04	2,820	459	351	1,740	---			
	12/10/04	1,980	605	332	400	---			
	05/04/05	2,300	231	307	266	---			
	12/15/05	2,930	249	804	648	---			
	05/24/06	2,490	270	516	423	---			
	12/13/06	2,130	209	469	556	---			
	06/07/07	2,770	285	462	478	---			
	12/28/07	2,120	134	263	490	---			
	05/21/08	2,620	242	514	736	---			
	12/22/08	2,240	190	664	472	---			
	05/04/09	2,640	292	847	617	---			
	12/09/09	2,570	373	684	---	---			
	04/26/10	2,240	358	399	359	---			
	12/09/10	2,320	205	465	317	---			
	05/09/11	1,990	148	400	275	---			
	12/05/11	2,090	158	309	468	---			
	05/16/12	2,640	183	446	548	---			
	12/04/12	1,970	146	302	277	---			
	04/24/13	2,300	177	238	291	---			
	12/12/13*	2,530	281	365 / 373	365	0.799			
	09/15/14	2,340	203	224	212	---			
	05/02/15	2,110	181	194	154	---			
	03/08/16	2,630	167	271	169	6.4			
	11/10/16	2,390	183	288	159	---			
	08/11/17	2,400	207	252	174	---			
	05/24/18	2,560	207	201	178	3.6			
	06/16/19	2,090	173	195	146	---			
	05/13/20	2,190	196	215	229	---			
	10/28/22	4,030	212	224	186	---			
	03/19/25	**1,840**	**164**	**204**	**---**	**---**			
pH	02/04/04	6.90	7.05	7.16	7.06	---	EPA 150.1	N/A	pH Units
	05/12/04	6.93	6.92	7.10	7.04	---			
	12/10/04	6.92	6.84	7.10	7.03	---			
	05/04/05	7.00	7.18	7.19	7.25	---			
	12/15/05	6.85	6.75	6.65	6.97	---			
	05/24/06	7.05	6.93	6.87	7.15	---			
	12/13/06	6.82	6.65	6.79	7.14	---			
	06/07/07	7.10	7.12	7.05	7.20	---			
	12/28/07	6.98	7.07	7.00	7.09	---			
	05/21/08	7.32	7.10	7.18	7.27	---			
	12/22/08	6.89	6.96	6.94	7.07	---			
	05/04/09	6.67	7.05	6.71	6.88	---			
	12/09/09	6.85	6.74	7.04	---	---			
	04/26/10	6.69	6.75	7.02	6.91	---			
	12/09/10	6.86	7.04	6.78	6.91	---	SM 4500-H^+B		
	05/09/11	6.83	7.04	6.81	6.97	---			
	12/05/11	6.91	7.28	7.13	7.02	---			
	05/16/12	6.76	7.40	7.04	7.06	---			
	12/04/12	6.48	6.75	6.76	6.96	---			
	04/24/13	6.79	7.34	7.30	7.45	---			
	12/12/13*	6.78	6.91	6.90 / 6.71	6.85	7.13			
	09/15/14	6.72	7.03	6.96	6.74	---			
	05/02/15	6.86	7.17	7.02	7.04	---			
	03/08/16	6.64	7.17	6.98	7.18	7.9			
	11/10/16	6.63	7.26	7.13	7.20	---			
	08/11/17	6.64	6.99	6.73	6.98	---			
	05/24/18	6.71	7.15	6.89	7.04	7.5			
	06/16/19	6.73	7.16	7.07	7.10	---			
	05/13/20	6.67	7.18	7.02	7.01	---			
	10/28/22	6.64	7.09	6.93	6.95	---			
	03/19/25	**6.72**	**7.89**	**7.62**	**---**	**---**			

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
MBAS	02/04/04	ND	0.177	0.127	0.254	---	EPA 425.1	0.10	mg/L
	05/12/04	0.392	0.415	0.253	0.207	---			
	12/10/04	0.520	0.613	0.400	0.423	---			
	05/04/05	0.350	0.275	0.175	0.350	---			
	12/15/05	0.730	0.361	0.969	0.984	---			
	05/24/06	0.570	0.215	0.600	0.472	---			
	12/13/06	0.359	0.111	0.698	0.649	---			
	06/07/07	0.241	0.366	0.253	0.207	---			
	12/28/07	0.363	0.224	0.189	0.244	---			
	05/21/08	0.321	0.149	0.179	0.256	---			
	12/22/08	0.727	0.263	0.337	0.579	---			
	05/04/09	0.139	0.054 J	0.066 J	0.079 J	---			
	12/09/09	0.089 J	0.055 J	0.063 J	---	---			
	04/26/10	0.121	0.097 J	0.105 J	0.109 J	---			
	12/09/10	0.352	0.078 J	0.097 J	0.357	---	SM 5540C		
	05/09/11	0.685	0.291	0.270	0.479	---			
	12/05/11	0.376	0.068	0.102	0.298	---			
	05/16/12	0.365	0.078	0.109	0.117	---			
	12/04/12	0.995	0.229	0.343	0.667	---			
	04/24/13	0.283	0.464	0.707	0.143	---			
	12/12/13*	0.412	0.175	0.135 / 0.125	0.264	0.046			
	09/15/14	0.406	ND	ND	ND	---			
	05/02/15	0.412	ND	ND	ND	---			
	03/08/16	1.460	0.340	0.299	0.322	0.5			
	11/10/16	0.642	0.284	0.305	0.174	---			
	08/11/17	0.859	ND	ND	ND	---			
	05/24/18	0.144	ND	ND	ND	ND			
	06/16/19	0.586	ND	ND	ND	---			
	05/13/20	0.490	0.085	ND	ND	---			
	10/28/22	6.170	0.355	0.128	0.313	---			
	03/19/25	**0.898**	**0.214**	**0.286**	**---**	**---**			
Turbidity	02/04/04	598	810	850	752	---	EPA 180.1	0.50	N.T.U.
	05/12/04	68.7	38.6	23.9	299	---			
	12/10/04	---	---	---	---	---			
	05/04/05	11.1	ND	5.4	ND	---			
	12/15/05	---	---	---	---	---			
	05/24/06	9.1	2.6	0.9	ND	---			
	12/13/06	6.6	2.8	16.2	1.2	---			
	06/07/07	9.9	5.3	ND	0.7	---			
	12/28/07	7.9	1.7	ND	ND	---			
	05/21/08	40.1	14.0	2.5	2.0	---			
	12/22/08	2.2	36.6	5.8	0.6	---			
	05/04/09	18.6	2.2	14.6	0.5	---			
	12/09/09	20.2	3.4	2.6	---	---			
	04/26/10	3.1	2.4	0.6	1.4	---			
	12/10/10	1.4	1.5	3.2	1.3	---	SM 2130B		
	05/09/11	3.6	1.2	1.0	0.7	---			
	12/05/11	2.6	1.2	0.7	0.5	---			
	05/16/12	2.6	3.4	1.3	1.1	---			
	12/04/12	2.9	3.7	1.4	1.0	---			
	04/24/13	4.1	3.2	1.6	1.4	---			
	12/12/13*	1.8	2.1	1.4 / 1.1	1.0	0.8			
	09/15/14	4.8	2.8	2.2	1.9	---			
	05/02/15	12.6	6.7	3.3	1.5	---			
	03/08/16	2.4	2.5	ND	ND	ND	Horiba U-52		
	11/10/16	7.5	6.9	0.7	0.8	---			
	08/11/17	0.0	0.0	0.0	0.0	---			
	06/16/19	3.0	2.4	1.0	0.8	---			
	05/13/20	2.6	4.9	2.3	0.5	---	Horiba U-52		
	10/28/22	7.0	3.0	1.0	2.0	---			
	03/19/25	**---**	**---**	**---**	**---**	**---**	TSI		

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Temperature	02/04/04	20.2	17.0	18.4	17.4	---	Field Meter - Horiba U-10	N/A	C°
	05/12/04	22.2	18.9	19.5	18.8	---			
	12/10/04	21.0	18.1	19.1	18.3	---			
	05/04/05	22.0	18.1	19.7	17.6	---			
	12/15/05	20.7	16.4	17.9	16.1	---			
	05/24/06	22.4	19.4	20.1	16.8	---	Field Meter - Hanna HI9142		
	12/13/06	18.8	17.0	19.3	15.7	---			
	06/07/07	21.8	17.2	20.3	16.5	---			
	12/28/07	20.5	16.4	18.6	15.6	---			
	05/21/08	22.1	18.1	20.7	16.4	---			
	12/22/08	20.4	16.5	18.5	16.1	---			
	05/04/09	21.8	18.3	20.5	16.5	---			
	12/09/09	20.5	17.1	18.8	---	---			
	04/26/10	22.9	18.1	20.2	17.4	---	Horiba U-10		
	12/09/10	22.4	18.7	20.1	18.9	---	Field Meter - Horiba U-52		
	05/09/11	21.6	17.1	19.6	---	---			
	12/05/11	21.0	16.6	19.0	18.5	---			
	05/16/12	21.5	15.8	20.3	16.9	---			
	12/04/12	21.3	16.3	19.3	18.5	---			
	04/24/13	21.5	16.5	19.0	16.5	---			
	12/12/13	21.4	17.0	19.4	19.2	---			
	09/15/14	21.2	16.6	19.6	19.1	---			
	05/02/15	21.2	16.8	19.8	17.2	---			
	03/08/16	21.7	17.6	20.2	18.2	---			
	11/10/16	22.0	17.8	20.1	19.5	---			
	08/11/17	22.1	17.9	20.8	19.4	---			
	05/24/18	22.5	18.8	21.3	19.4	N/A	Field YSI 556		
	06/16/19	23.8	18.1	21.4	18.8		Horiba U-52		
	05/13/20	21.8	16.9	20.3	17.7	---			
	10/28/22	18.8	18.9	21.0	19.9	---			
	03/19/25	**20.4**	**16.9**	**19.4**	**---**	**---**	TSI		
Electrical Conductivity	02/04/04	11.80	1.20	1.40	1.45	---	Field Meter - Horiba U-10	N/A	mS/cm (x 1000)
	05/12/04	7.61	1.46	1.26	1.60	---			
	12/10/04	9.60	2.06	1.55	1.72	---			
	05/04/05	6.60	1.79	1.17	0.94	---			
	12/15/05	6.04	0.99	2.47	2.19	---			
	05/24/06	>3.99	0.78	1.59	1.15	---	Field Meter - Hanna HI9142		
	12/13/06	>3.99	0.61	1.59	1.73	---			
	06/07/07	>3.99	0.68	1.30	1.30	---			
	12/28/07	>3.99	0.61	1.15	1.77	---			
	05/21/08	>3.99	0.70	1.54	2.03	---			
	12/22/08	>3.99	0.66	2.37	1.72	---			
	05/04/09	>3.99	0.83	2.51	1.70	---			
	12/09/09	>3.99	1.08	2.25	---	---			
	04/26/10	7.39	1.21	1.42	1.29	---	Horiba U-10		
	12/09/10	7.39	1.21	1.42	1.29	---	Field Meter - Horiba U-52		
	05/09/11	6.18	0.68	1.91	---	---			
	12/05/11	6.39	0.56	1.39	1.72	---			
	05/16/12	5.81	0.65	1.83	1.52	---			
	12/04/12	7.13	0.78	1.49	1.54	---			
	04/24/13	5.78	0.73	1.23	1.01	---			
	12/12/13	7.93	0.84	1.09	1.10	---			
	09/15/14	7.85	0.92	1.08	1.01	---			
	05/02/15	6.75	0.80	0.96	0.80	---			
	03/08/16	7.28	0.85	1.16	0.80	---			
	11/10/16	7.59	0.90	1.18	0.76	---			
	08/11/17	7.57	0.86	1.12	0.78	---			
	05/24/18	7.38	0.72	0.88	0.64	N/A	Field YSI 556		
	06/16/19	6.48	0.81	0.93	0.71		Horiba U-52		
	05/13/20	5.40	0.50	0.57	0.54	---			
	05/13/20	5.40	0.50	0.57	0.54	---			
	10/28/22	0.90	0.90	0.92	0.70	---			
	03/19/25	**4.83**	**0.64**	**0.78**	**---**	**---**	TSI		

TABLE 2 - CURRENT AND HISTORICAL GROUNDWATER RESULTS

ANALYTE	DATE	MW1	MW2	MW3	MW4	MW99 (equip blank)	TEST METHOD	PQL	UNITS
Dissolved Oxygen	02/04/04	3.6	3.1	2.7	3.0	---	Field Meter - Horiba U-10	N/A	mg/L
	05/12/04	3.9	2.4	1.0	1.0	---			
	12/10/04	3.5	2.2	1.7	1.9	---			
	05/04/05	3.9	3.1	2.4	6.9	---			
	12/15/05	3.4	1.1	1.0	4.2	---			
	05/24/06	5.7	1.7	2.3	6.2	---	Field Meter - Hanna HI9142		
	12/13/06	2.5	-0.7	-1.3	2.7	---			
	06/07/07	-0.7	-1.0	-1.0	1.4	---			
	12/28/07	5.9	-0.8	2.6	1.0	---			
	05/21/08	18.4	11.9	18.5	8.4	---			
	12/22/08	2.2	1.7	0.8	4.1	---			
	05/04/09	13.2	7.5	10.0	11.5	---			
	12/09/09	-0.3	0.0	0.1	---	---			
	04/26/10	3.4	2.1	1.6	4.5	---	Horiba U-10		
	12/09/10	3.4	2.1	1.6	4.5	---	Field Meter - Horiba U-52		
	05/09/11	5.5	3.6	0.6	---	---			
	12/05/11	3.8	0.6	0.4	1.2	---			
	05/16/12	5.2	0.0	0.4	0.6	---			
	12/04/12	4.0	0.0	0.0	2.5	---			
	04/24/13	4.5	0.0	0.0	0.0	---			
	12/12/13	5.8	0.0	0.0	0.4	---			
	09/15/14	4.7	0.2	0.3	0.8	---			
	05/02/15	3.9	0.5	0.0	0.5	---			
	03/08/16	3.7	2.8	0.0	1.2	---			
	11/10/16	4.7	5.1	0.0	3.6	---			
	08/11/17	3.0	4.4	0.0	3.9	---	Field YSI 556		
	05/24/18	2.9	4.1	1.7	4.7	N/A	Field YSI 556		
	06/16/19	5.4	8.0	0.9	5.9	N/A	Horiba U-52		
	05/13/20	5.6	4.8	1.0	4.2	N/A			
	10/28/22	7.8	7.1	1.8	6.0	N/A			
	03/19/25	**2.9**	**3.9**	**3.5**	**---**	**N/A**	TSI		

1 "---" = Not analyzed for this compound.

2 ND = None Detected above the PQLs.

* Duplicate samples were collected from well MW3 during the 12/12/13 sampling event. The relative percent difference (RPD) of each analyte was calculated and were all within an acceptable range (<25% RPD).

J Trace concentration between MDL and PQL.

B

R RD R D R M R

M	34°47.108'	117°15.756'	7.3
M	34°47.365'	117°315.934'	11.5
M	34°47.585'	117°14.588'	10.5
M	34°47.871'	117°14.557'	6.6

□□B□□□□

□□□R□□□□□BR□□□D□□ □□□□□□R□□□□□□□
(all results are reported in milligram per liter)

□ □□□□□□□	□□M□□□□D□□□	□r□□□□□ □□□□□□□□□□□	□MM□□□□□□□□□	□□□R□□□□□□□□□	□□□R□□□□□□□□□
M□ □	04/24/13	ND	ND	ND	10.6
M□ □	04/24/13	ND	ND	ND	1.2
M□ □	04/24/13	3.1	ND	ND	5.8
M□ □	04/24/13	0.6	ND	ND	18.2
□□□□	N/A	0.4	0.1	0.01	0.05
□□□□M□□□□D	N/A	EPA 351.2	SM 4500-NH_3D	SM 4500-NO_3^-E	SM 4500-NO_3^-E

APPENDIX A

FIELD PROCEDURES

Groundwater Elevation Measurements

The depth to groundwater was measured in each well to the nearest 0.01 foot from the top edge of the PVC well casing, northern-most point (cap or plug removed). Measurements were collected with an electronic well sounder, which was washed with a solution of water and LIQUINOX® (a phosphate-free detergent), rinsed with tap water, and then finally rinsed again with de-ionized water.

Using the three-point method, the groundwater flow direction was calculated. This groundwater flow direction is shown graphically on attached **Figure 2**.

Well Purging

- Each groundwater monitoring well was purged with a submersible 1.5-inch PVC pump. Purge volumes were determined using field measured parameters (pH, temperature, electrical conductivity, etc.), and with consideration of the thickness of the saturated well screens.

- Except where noted in the above report, each well was purged of approximately 20 gallons prior to sampling.

- During purging, field measurements of temperature, pH, electrical conductivity and dissolved oxygen were collected. These data, as well as information on the total volumes of purged groundwater, are provided at the end of this appendix.

- All purging equipment was washed prior to use in each well. The equipment was washed with a solution of water and LIQUINOX®, rinsed with tap water, and then rinsed again with de-ionized water.

Well Sampling

- After the various measured field parameters became stable while purging each well, samples of the groundwater were then collected from the pump discharge.

- The groundwater samples were collected in laboratory-approved containers appropriately preserved for the various analyses, and kept in an ice chest maintained at approximately 4 °C until given to the laboratory.

- All samples were immediately transported to a State of California, Department of Health Services certified laboratory under strict chain-of-custody procedures.

FIELD DATA - WELL PURGING

WELL NO.	DEPTH TO WATER (feet) 03/19/25	PURGE VOLUME (gal)	TEMP (C°)	pH	ELECTRICAL CONDUCTIVITY (mS/cm)	DISSOLVED OXYGEN (mg/L)	COMMENTS
MW1	38.84	1.0	20.2	6.98	4761	5.16	pump ~5' into gw
		2.5	20.7	7.00	4867	1.93	
		5.0	20.3	7.01	4862	1.16	
		10.0	20.8	7.02	4867	1.85	
		15.0	20.7	6.96	4851	2.02	
		17.5	20.3	6.99	4846	2.76	
	samp@13:35	20.0	20.4	6.97	4828	2.91	
MW2	15.81	1.0	15.3	7.50	633	16.98	pump ~5' into gw
		2.5	15.3	7.60	634	8.64	
		5.0	16.4	7.55	635	4.30	
		10.0	16.7	7.63	633	2.49	
		15.0	16.8	7.60	639	1.95	
		17.5	16.9	7.59	640	3.30	
	samp@14:20	20.0	16.9	7.52	640	3.94	
MW3	21.42	1.0	19.4	7.33	782	5.52	pump ~5' into gw
		2.5	19.4	7.32	783	5.18	
		5.0	19.5	7.32	784	5.55	
		10.0	19.4	7.31	785	4.53	
		15.0	19.4	7.31	787	4.26	
		17.5	19.4	7.30	788	4.00	
	samp@15:37	20.0	19.4	7.29	787	3.49	
MW4							Well was not accessible

APPENDIX B

LABORATORY REPORT – MARCH 19, 2025
GROUNDWATER SAMPLES

Enviro - Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: March 27, 2025

Mr. Robert Hansen
Alta EM, Inc.
5655 High Meadow
Rancho Cucamonga, CA 91737
Tel:(909)322-6611 E-Mail: RHansen@AltaEM.com

Project: **N&M Dairy / 04481-01**
Lab I.D.: **250320-70, -71, -72**

Dear Mr. Hansen:

The **analytical results** for the water samples, received by our laboratory on March 20, 2025, are attached. The samples were received chilled, intact, and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Pearl Wong
Quality Manager

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or Manager's Designee, as verified by the above signature which applies to this PDF File as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of ELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta EM, Inc**
5655 High Meadow Place, Rancho Cucamonga, CA 91737
Tel: (909) 322-6611 E-Mail: RHansen@AltaEM.com

PROJECT: **N&M Dairy / 04481-01**
MATRIX: WATER
SAMPLING DATE: 03/19/25
REPORT TO: MR. ROBERT HANSEN

DATE RECEIVED: 03/20/25
DATE ANALYZED: 03/20-26/25
DATE REPORTED: 03/27/25

SAMPLE I.D.: **MW1**
LAB I.D.: 250320-70

PARAMETER	UNIT	SAMPLE RESULT	PQL	DF	TEST METHOD
SPECIFIC CONDUCTANCE	uMHOS/CM	7810	5	1	SM 2510B
pH	pH UNITS	6.72	---	--	SM 4500-H^+B
TOTAL DISSOLVED SOLIDS	mg/L	4870	1	1	SM 2540C
ORTHO-PHOSPHATE, as P	mg/L	ND	1	1	EPA 300.0
ALKALINITY (as $CACO_3$)					
BICARBONATE	mg/L	152	1	1	SM 2320B
CARBONATE	mg/L	ND	1	1	SM 2320B
HYDROXIDE	mg/L	ND	1	1	SM 2320B
CHLORIDE	mg/L	1630	0.5	100	EPA 300.0
NITRATE, AS N	mg/L	4.84	0.05	10	SM 4500-NO_3^-E
FLUORIDE	mg/L	1.18	0.2	1	EPA 300.0
SULFATE	mg/L	388	1	100	EPA 300.0
MBAS(SURFACTANTS)	mg/L	0.898	0.10	1	SM 5540C
TURBIDITY	mg/L	2.5	0.50	1	SM 2130B
CALCIUM(Ca)	mg/L	593	0.10	100	EPA 200.7
COPPER(Cu)	mg/L	ND	0.02	1	EPA 200.7
IRON(Fe)	mg/L	0.135	0.10	1	EPA 200.7
MAGNESIUM(Mg)	mg/L	87.6	0.10	10	EPA 200.7
MANGANESE(Mn)	mg/L	ND	0.01	1	EPA 200.7
POTASSIUM(K)	mg/L	9.78	0.05	10	EPA 200.7
SODIUM(Na)	mg/L	325	0.10	100	EPA 200.7
ZINC(Zn)	mg/L	ND	0.01	1	EPA 200.7
TOTAL HARDNESS (as $CaCO_3$)	mg/L	1840	1.00	100	EPA 200.7

COMMENTS:
ug/L = MICROGRAM PER LITER = PPB mg/L = MILLIGRAM PER LITER = PPM
uMHOS/CM = MICRO-MHOS PER CENTIMETER @ 25.0 DEGREE CELSIUS
NTU = NEPHELOMETRIC TURBIDITY UNIT
MBAS = METHYLENE BLUE ACTIVE SUBSTANCE DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
pH ANALYZED AT TEMPERATURE OF 19.9 DEGREE CELSIUS

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta EM, Inc**
5655 High Meadow, Rancho Cucamonga, CA 91737
Tel: (909) 322-6611 E-Mail: RHansen@AltaEM.com

PROJECT: **N&M Dairy / 04481-01**
MATRIX: WATER
SAMPLING DATE: 03/19/25
REPORT TO: MR. ROBERT HANSEN

DATE RECEIVED: 03/20/25
DATE ANALYZED: 03/20-26/25
DATE REPORTED: 03/27/25

SAMPLE I.D.: **MW2** LAB I.D.: 250320-71

PARAMETER	UNIT	SAMPLE RESULT	PQL	DF	TEST METHOD
SPECIFIC CONDUCTANCE	uMHOS/CM	1210	5	1	SM 2510B
pH	pH UNITS	7.89	---	--	SM 4500-H^+B
TOTAL DISSOLVED SOLIDS	mg/L	751	1	1	SM 2540C
ORTHO-PHOSPHATE, as P	mg/L	ND	1	1	EPA 300.0
ALKALINITY (as $CACO_3$)					
BICARBONATE	mg/L	212	1	1	SM 2320B
CARBONATE	mg/L	ND	1	1	SM 2320B
HYDROXIDE	mg/L	ND	1	1	SM 2320B
CHLORIDE	mg/L	94.4	0.5	10	SM 300.0
NITRATE, AS N	mg/L	0.666	0.05	1	SM 4500-NO_3^-E
FLUORIDE	mg/L	0.718	0.2	1	EPA 300.0
SULFATE	mg/L	70.2	1	10	EPA 300.0
MBAS(SURFACTANTS)	mg/L	0.214	0.10	1	SM 5540C
TURBIDITY	mg/L	3.3	0.50	1	SM 2130B
CALCIUM(Ca)	mg/L	51.1	0.10	10	EPA 200.7
COPPER(Cu)	mg/L	ND	0.02	1	EPA 200.7
IRON(Fe)	mg/L	0.138	0.10	1	EPA 200.7
MAGNESIUM(Mg)	mg/L	8.88	0.10	1	EPA 200.7
MANGANESE(Mn)	mg/L	0.168	0.01	1	EPA 200.7
POTASSIUM(K)	mg/L	4.23	0.05	10	EPA 200.7
SODIUM(Na)	mg/L	83.5	0.10	10	EPA 200.7
ZINC(Zn)	mg/L	0.018	0.01	1	EPA 200.7
TOTAL HARDNESS (as $CaCO_3$)	mg/L	164	1.00	10	EPA 200.7

COMMENTS:
ug/L = MICROGRAM PER LITER = PPB mg/L = MILLIGRAM PER LITER = PPM
uMHOS/CM = MICRO-MHOS PER CENTIMETER @ 25.0 DEGREE CELSIUS
NTU = NEPHELOMETRIC TURBIDITY UNIT
MBAS = METHYLENE BLUE ACTIVE SUBSTANCE DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
pH ANALYZED AT TEMPERATURE OF 19.9 DEGREE CELSIUS

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta EM, Inc**
5655 High Meadow, Rancho Cucamonga, CA 91737
Tel: (909) 322-6611 E-Mail: RHansen@AltaEM.com

PROJECT: **N&M Dairy / 04481-01**
MATRIX: WATER
SAMPLING DATE: 03/19/25
REPORT TO: MR. ROBERT HANSEN

DATE RECEIVED: 03/20/25
DATE ANALYZED: 03/20-26/25
DATE REPORTED: 03/27/25

SAMPLE I.D.: **MW3** LAB I.D.: 250320-72

PARAMETER	UNIT	SAMPLE RESULT	PQL	DF	TEST METHOD
SPECIFIC CONDUCTANCE	uMHOS/CM	1350	5	1	SM 2510B
pH	pH UNITS	7.62	---	--	SM 4500-H^+B
TOTAL DISSOLVED SOLIDS	mg/L	810	1	1	SM 2540C
ORTHO-PHOSPHATE, as P	mg/L	ND	1	1	EPA 300.0
ALKALINITY (as $CACO_3$)					
BICARBONATE	mg/L	206	1	1	SM 2320B
CARBONATE	mg/L	ND	1	1	SM 2320B
HYDROXIDE	mg/L	ND	1	1	SM 2320B
CHLORIDE	mg/L	101	0.5	10	SM 300.0
NITRATE, AS N	mg/L	4.97	0.05	10	SM 4500-NO_3^-E
FLUORIDE	mg/L	1.26	0.2	1	EPA 300.0
SULFATE	mg/L	90.9	1	10	EPA 300.0
MBAS(SURFACTANTS)	mg/L	0.286	0.10	1	SM 5540C
TURBIDITY	mg/L	0.47	0.50	1	SM 2130B
CALCIUM(Ca)	mg/L	62.5	0.10	10	EPA 200.7
COPPER(Cu)	mg/L	ND	0.02	1	EPA 200.7
IRON(Fe)	mg/L	ND	0.10	1	EPA 200.7
MAGNESIUM(Mg)	mg/L	11.6	0.10	10	EPA 200.7
MANGANESE(Mn)	mg/L	ND	0.01	1	EPA 200.7
POTASSIUM(K)	mg/L	7.87	0.05	10	EPA 200.7
SODIUM(Na)	mg/L	82.2	0.10	100	EPA 200.7
ZINC(Zn)	mg/L	ND	0.01	1	EPA 200.7
TOTAL HARDNESS (as $CaCO_3$)	mg/L	204	1.00	10	EPA 200.7

COMMENTS:
ug/L = MICROGRAM PER LITER = PPB mg/L = MILLIGRAM PER LITER = PPM
uMHOS/CM = MICRO-MHOS PER CENTIMETER @ 25.0 DEGREE CELSIUS
NTU = NEPHELOMETRIC TURBIDITY UNIT
MBAS = METHYLENE BLUE ACTIVE SUBSTANCE DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
pH ANALYZED AT TEMPERATURE OF 20.0 DEGREE CELSIUS

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **Alta EM, Inc**
5655 High Meadow, Rancho Cucamonga, CA 91737
Tel: (909) 322-6611 E-Mail: RHansen@AltaEM.com

PROJECT: **N&M Dairy / 04481-01**
MATRIX: WATER
SAMPLING DATE: 03/19/25
REPORT TO: MR. ROBERT HANSEN

DATE RECEIVED: 03/20/25
DATE ANALYZED: 03/20-26/25
DATE REPORTED: 03/27/25

METHOD BLANK REPORT FOR LAB I.D.: 250320-70, -71, -72

PARAMETER	UNIT	SAMPLE RESULT	PQL	DF	TEST METHOD
TOTAL DISSOLVED SOLIDS	mg/L	ND	1	1	SM 2540C
ORTHO-PHOSPHATE, AS P	mg/L	ND	1	1	EPA 300.0
ALKALINITY (as $CaCO_3$)					
BICARBONATE	mg/L	ND	1	1	SM 2320B
CARBONATE	mg/L	ND	1	1	SM 2320B
HYDROXIDE	mg/L	ND	1	1	SM 2320B
CHLORIDE	mg/L	ND	0.5	1	EPA 300.0
NITRATE, AS N	mg/L	ND	0.05	1	SM 4500-NO_3^-E
FLUORIDE	mg/L	ND	0.2	1	EPA 300.0
SULFATE	mg/L	ND	1	1	EPA 300.0
MBAS(SURFACTANTS)	mg/L	ND	0.10	1	SM 5540C
TURBIDITY	mg/L	ND	0.50	1	SM 2130B
CALCIUM(Ca)	mg/L	ND	0.10	1	EPA 200.7
COPPER(Cu)	mg/L	ND	0.02	1	EPA 200.7
IRON(Fe)	mg/L	ND	0.10	1	EPA 200.7
MAGNESIUM(Mg)	mg/L	ND	0.10	1	EPA 200.7
MANGANESE(Mn)	mg/L	ND	0.01	1	EPA 200.7
POTASSIUM(K)	mg/L	ND	0.05	1	EPA 200.7
SODIUM(Na)	mg/L	ND	0.10	1	EPA 200.7
ZINC(Zn)	mg/L	ND	0.01	1	EPA 200.7
TOTAL HARDNESS (as $CaCO_3$)	mg/L	ND	1.00	1	EPA 200.7

COMMENTS:
ug/L = MICROGRAM PER LITER = PPB mg/L = MILLIGRAM PER LITER = PPM
NTU = NEPHELOMETRIC TURBIDITY UNIT
MBAS = METHYLENE BLUE ACTIVE SUBSTANCE DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766
Tel (909)590-5905 Fax (909)590-5907

Matrix: WATER/LIQUID

QA/QC Report

Analysis	Units	Date Analyzed	Sample I.D.	S.R.	Duplicate	% RPD	ACP %RPD
Alkalinity	mg/L	3/21/2025	250320-72	206	208	0.97%	0-20
Residual Chlorine	mg/L					0.00%	0-20
EC/SC	umhos/cm	3/20/2025	250320-72	1352	1364	0.88%	0-20
pH	pH units	3/20/2025	250320-72	7.62	7.64	0.26%	0-20
TDS	mg/L	3/21/2025	250320-79	785	794	1.14%	0-20
TSS	mg/L	3/19/2025	250318-17A	8	8	0.00%	0-20
Turbidity	mg/L	3/20/2025	250320-72	0.47	0.46	2.15%	0-20
%Moisture	%					0.00%	0-20
DENSITY	ohms					0.00%	0-20
Settleable Solid	mL/L/hr					0.00%	0-20
Resistivity	ohms					0.00%	0-20
Carbon Dioxide	mg CO_2/L					0.00%	0-20

%RPD = Relative Percent Difference **ACP %RPD** = Acceptable Relative Percent Difference

Analysis	Units	Date Analyzed	Sample I.D.	Spk Conc	S.R.	ACP %RPD	ACP %RC	MS	MS %RC	MSD	MSD %RC	% RPD
Acidity	mg/L				0	0-20	80-120					#VALUE!
Ammonia as N	mg/L			5.00	0.00	0-20	80-120					#VALUE!
Chloride	mg/L			20.0	0.00	0-20	80-120					#VALUE!
COD	mg/L	3/20/2025	250303-106	500	1124	0-20	80-120	1561	87%	1575	90%	2.8%
CR VI	mg/L			0.400	0.00	0-20	80-120					#VALUE!
Cyanide	mg/L			0.200	0.00	0-20	80-120					#VALUE!
Fluoride	mg/L			1.00	0.00	0-20	80-120					#VALUE!
MBAS	mg/L	3/21/2025	250320-71	0.600	0.21	0-20	80-120	0.715	84%	0.699	82%	2.7%
Nitrate as N	mg/L	3/20/2025	LCS1/2	0.400	0.00	0-20	80-120	0.343	86%	0.340	85%	0.8%
Nitrite as N	mg/L	3/20/2025	250320-70	0.400	0.00	0-20	80-120	0.378	95%	0.366	92%	3.0%
EPA 1664A	mg/L			20.0	0.0	0-20	80-120					#VALUE!
OIL & GREASE 413.2	mg/L			20.00	0.00	0-20	80-120					#VALUE!
Phenolics	mg/L			0.500	0.00	0-20	80-120					#VALUE!
Sulfate	mg/L			20.0	0.00	0-20	80-120					#VALUE!
Dissolved Sulfide	mg/L			0.300	0.00	0-20	80-120					#VALUE!
Total Sulfide	mg/L			0.300	0.00	0-20	80-120					#VALUE!
TRPH	mg/L			20.00	0.00	0-20	80-120					#VALUE!

S.R. = Sample Results **%RC** = Percent Recovery **ACP %RC** = Acceptable Percent Recovery **Spk Conc** = Spike Concentration

Analyst Signature: _____ **Final Reviewer:** _____

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766
Tel (909) 590-5905
Fax (909) 590-5907

QA/QC Report for inorganic anions by IC

Analysis Methoc EPA 300.0

Analysis Date: 3/21/25

Matrix Type **WATER**
Conc. Unit: mg/L

sample ID LCS1/2

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spike Sample ID:	F	CL	NO2	NO3	PO4	SO4
Sample Result	0.00	0.00	0.00	0.00	0.00	0.00
Spike Conc.	2.00	5.00	2.00	2.00	10.00	10.00
MS	1.92	5.00	2.00	2.02	10.79	10.22
%MS	**96%**	**100%**	**100%**	**101%**	**108%**	**102%**
MSD	1.93	5.01	1.98	2.04	10.94	10.35
%MSD	**97%**	**100%**	**99%**	**102%**	**109%**	**104%**
%RPD	**1%**	**0%**	**1%**	**1%**	**1%**	**1%**
ACP %MS	90-110%	90-110%	90-110%	90-110%	90-110%	90-110%
ACP %RPD	0~5%	0~5%	0~5%	0~5%	0~5%	0~5%
IPC	1.91	4.90	1.97	2.03	10.54	9.74
%IPC	**96%**	**98%**	**99%**	**102%**	**105%**	**97%**
ACP %IPC	90-110%	90-110%	90-110%	90-110%	90-110%	90-110%
Spike Sample ID:	**F**	**CL**	**NO2**	**NO3**	**PO4**	**SO4**
Spike Conc.	10.00	25.00	10.00	10.00	50.00	50.00
LFB 1	9.68	25.35	10.47	10.10	48.59	47.73
%LFB	**97%**	**101%**	**105%**	**101%**	**97%**	**95%**
ACP %LFB	90-110%	90-110%	90-110%	90-110%	90-110%	90-110%

If batch use LCS1/2 replace MS/MSD no LCS to be needed

Analyzed/Reviewed by _____

Final Reviewed by _____

QA/QC for TTLC Metals Analysis --WATER MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/21/2025 Unit : mg/L(ppm)

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS	LCS %Rec.	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Boron (B)	250320-23	1.00	1.08	108	0	1.00	1.04	104	0.989	99	5%
Zinc (Zn)	250320-23	1.00	0.963	96	0.023	1.00	0.991	97	0.979	96	1%
Lead(Pb)	250320-23	1.00	0.900	90	0	1.00	1.00	100	0.981	98	2%

ANALYSIS DATE. : 3/19/2025

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS	LCS %Rec.	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	250317-41	0.00250	0.00230	92	0	0.00250	0.00219	88	0.00209	84	5%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Boron (B)	PASS	PASS	PASS	PASS
Zinc (Zn)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	70 ~ 130	70 ~ 130	85 ~ 115	0 ~ 20

ANALYST: _____

FINAL REVIEWER: _____

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

QA/QC for Metals Analysis --Water MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 3/26/2025

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS		Sample Result	Sample Duplicate	% RPD			
Potassium (K)	250320-71	1.00	95	PASS		4.23	4.26	1%			

ANALYSIS DATE:

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)											

MS/MSD Status:

Analysis			%LCS	%RPD
Potassium (K)			PASS	PASS
Accepted Range	70 ~ 130	70 ~ 130	85 ~ 115	0 ~ 20

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: _____

FINAL REVIEWER: _____

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	SGG COMPOSITE								COMMENTS
								Analysis Required								
MW1	25320-70	03/19/2025	13:35	Water	2-1000 ml Bottle 1-250 ml HNO3 1-250 ml H2SO4		Blue Ice	X								NITRATE AS N
MW2	-71	↓	14:20	↓	↓		↓	X								TDS
MW3	-72	↓	15:37	↓	↓		↓	X								PH
																SPEC CONDUCTANCE
																ALKALINITY
																ORTHOPHOSPHATE
																CHLORIDE
																FLOURIDE
																SULFATE
																MBAS
																TURBIDITY
																CA, CU, FE, MG
																MN, K, NA, ZN
																TOTAL HARDNESS
																AS $CaCO_3$

Company Name: ALTA EM, Inc.
Address: 5655 High Meadow
City/State/Zip: Rancho Cucamonga, CA 91737

Project Contact: Robert Hansen
Tel: (909) 322-6611
Fax/Email: (909) 322-6611

Sampler's Signature:

Project Name/ID: N&M Dairy 04481-01

Relinquished by:	Received by:	Date & Time: 3/20/25 1230
Relinquished by:	Received by:	Date & Time: 03/20/25 1630
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

3/19/2025

CHAIN OF CUSTODY RECORD

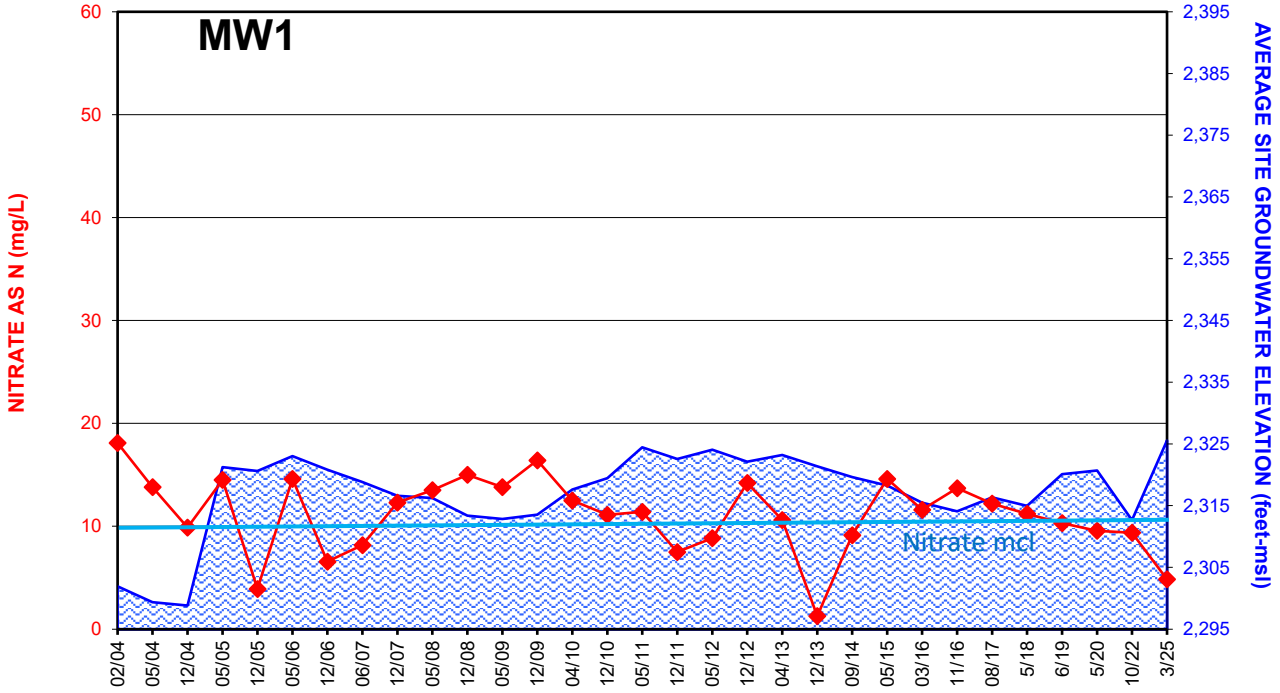
Date: 03/19/2025

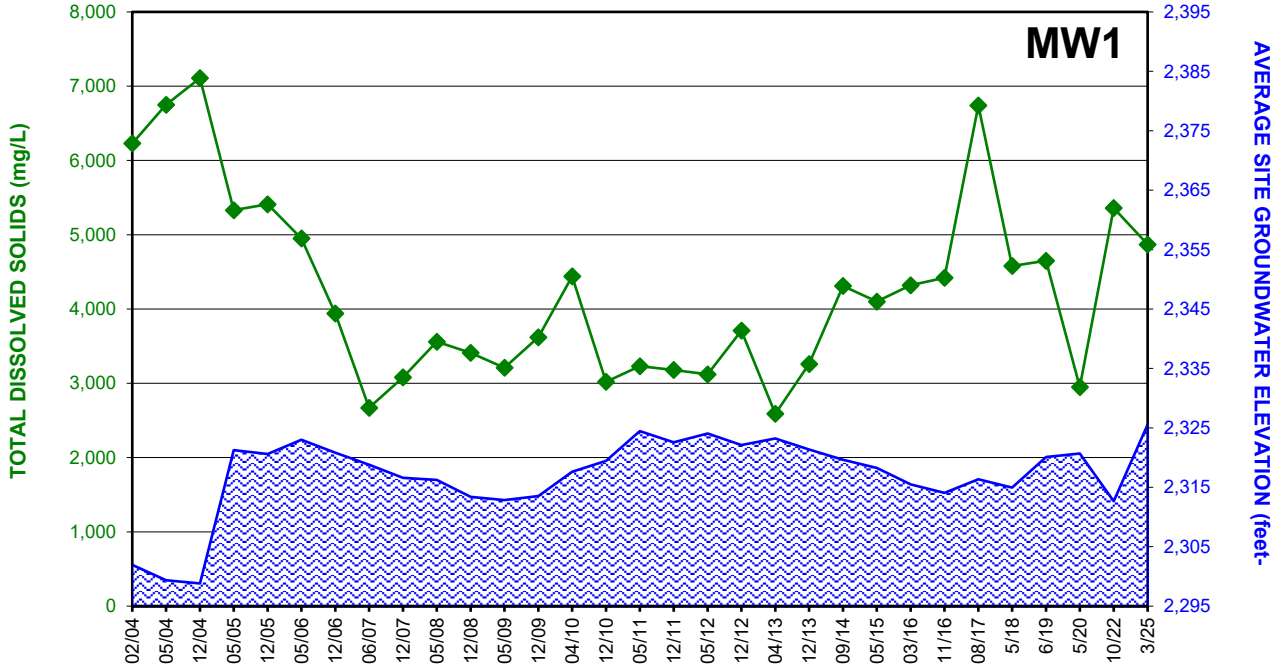
WHITE WITH SAMPLE • YELLOW TO CLIENT

APPENDIX C

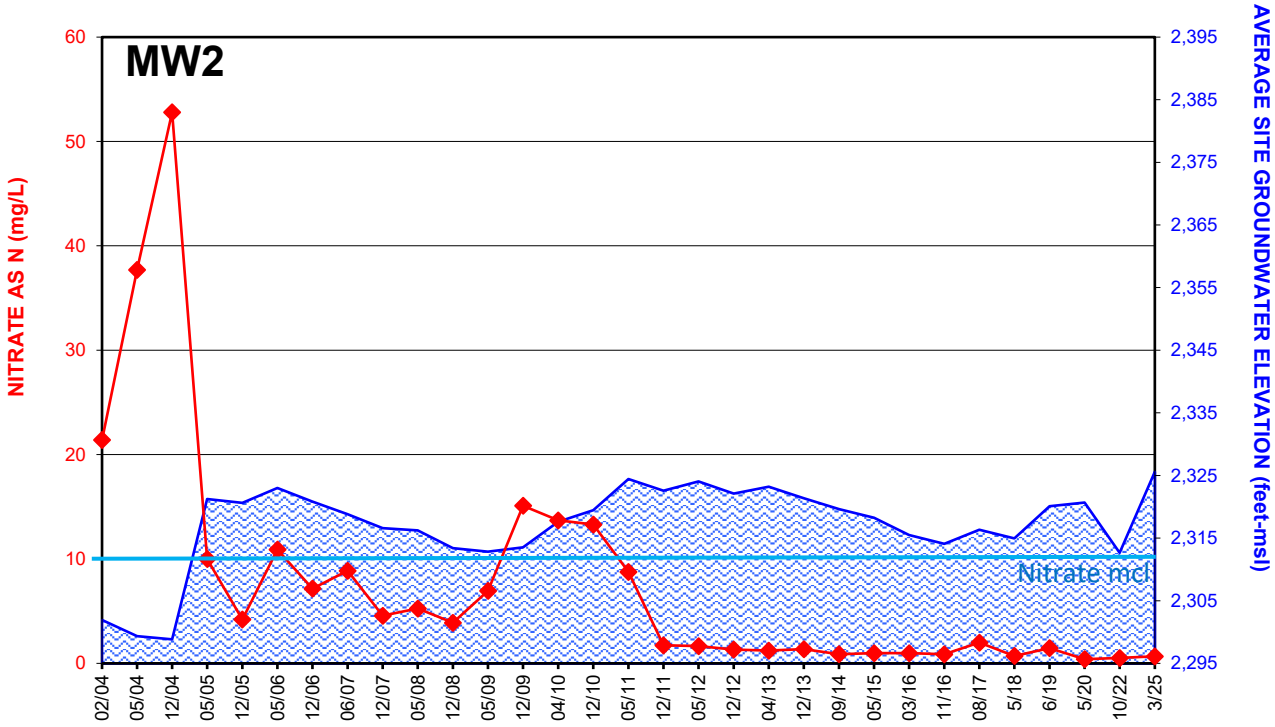
GRAPHS OF HISTORICAL NITRATE AS N & TDS CONCENTRATIONS IN INDIVIDUAL WELLS

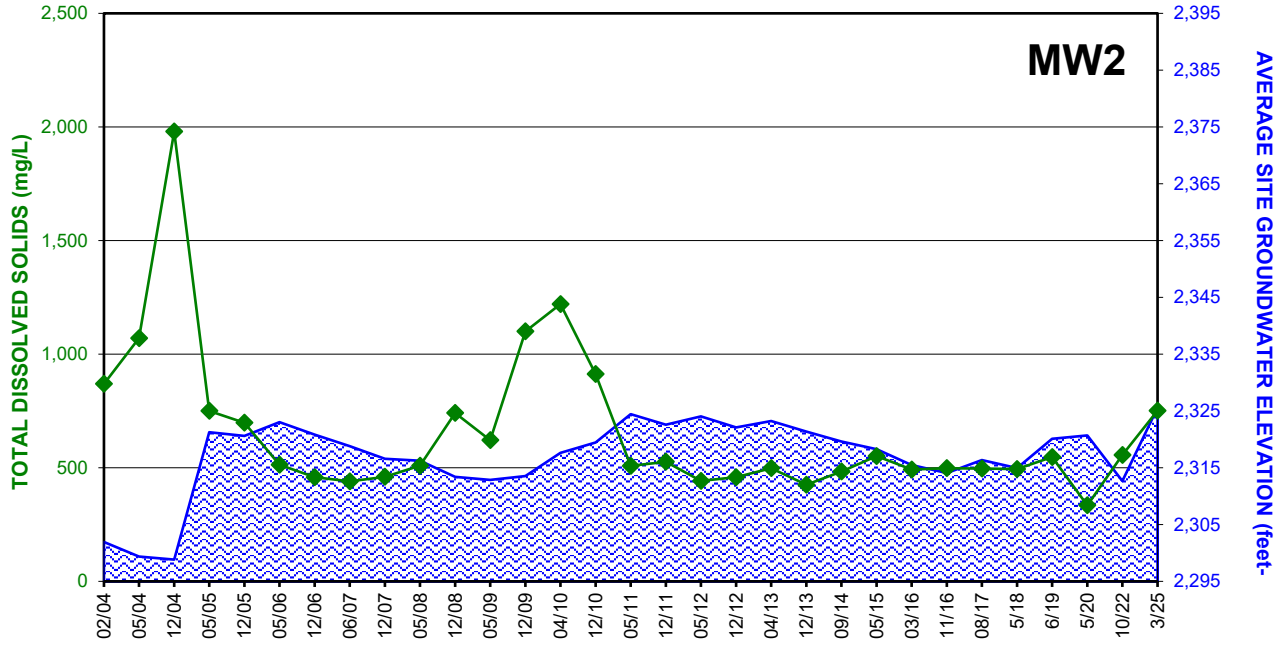
WELL MW1 - HISTORICAL NITRATE AS N AND TDS DATA



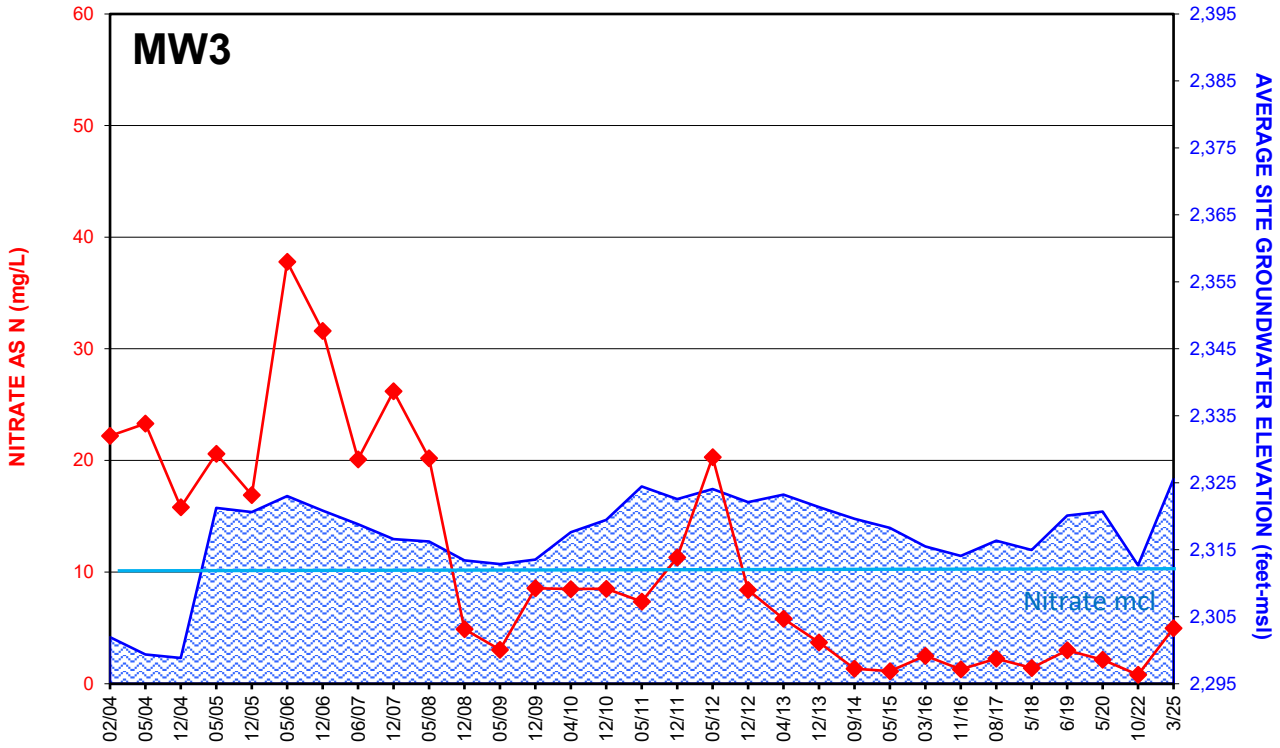


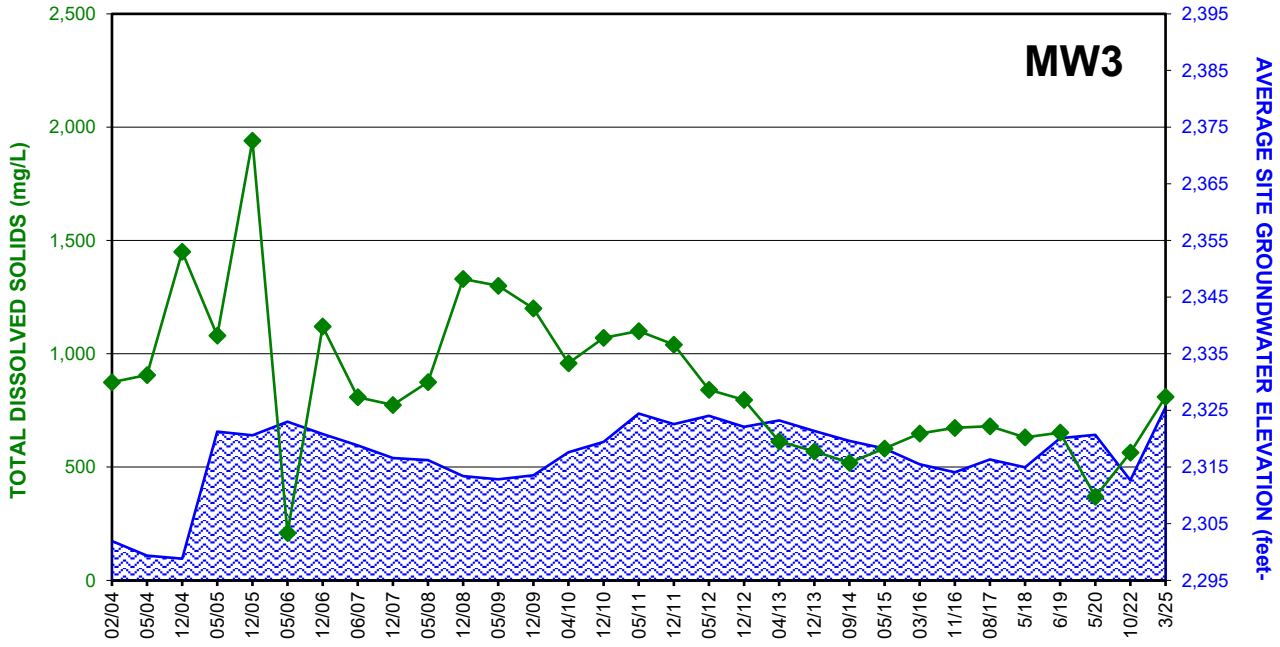
WELL MW 2 - HISTORICAL NITRATE AS N AND TDS DATA



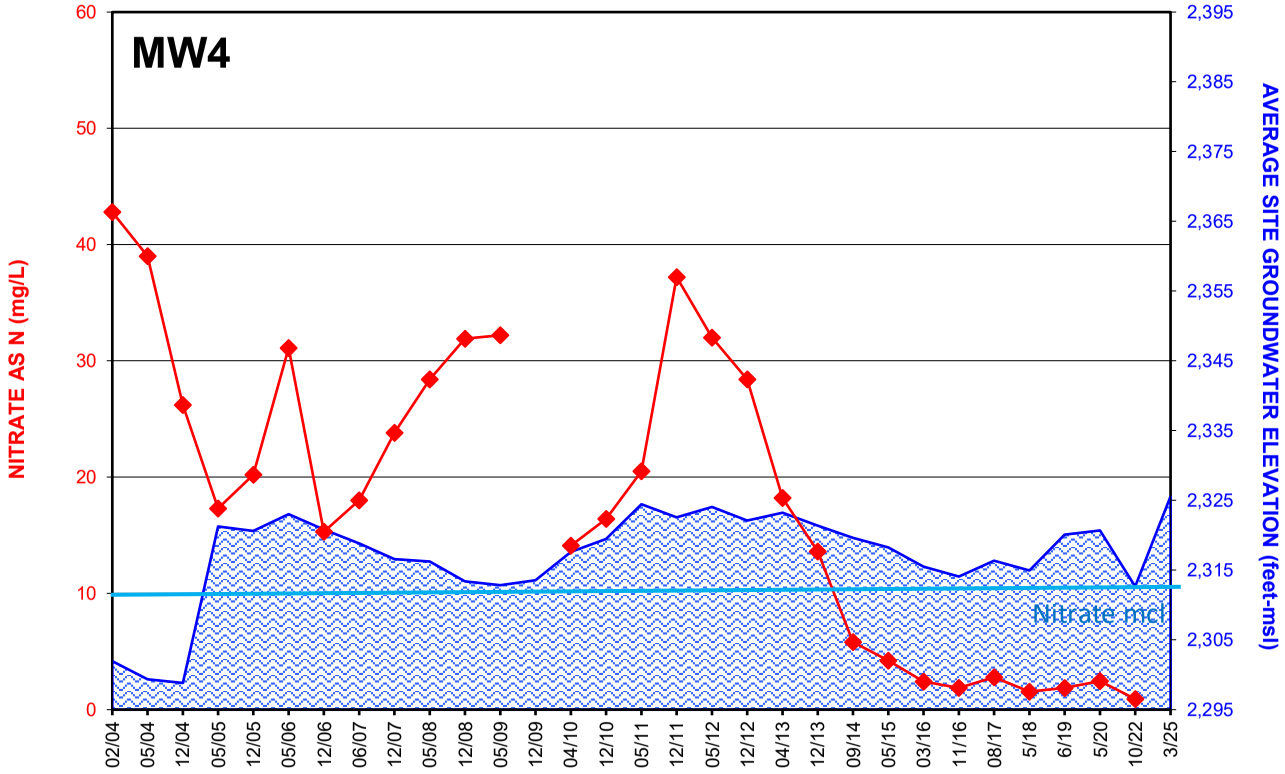


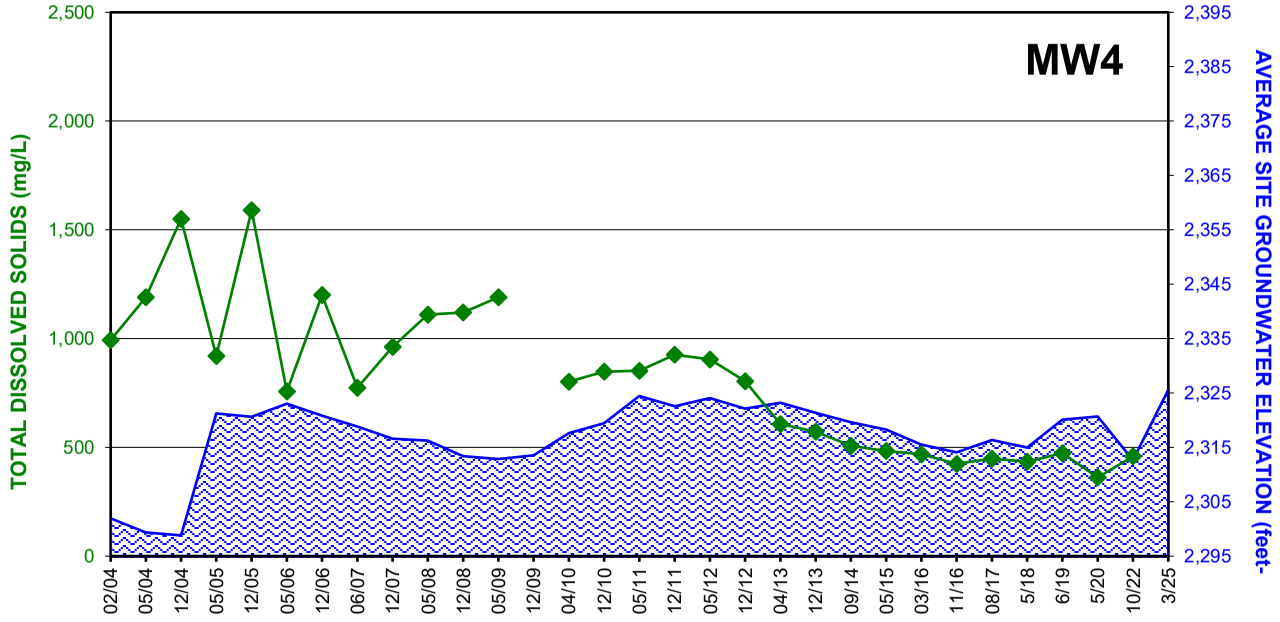
WELL MW3 - HISTORICAL NITRATE AS N AND TDS DATA





WELL MW4 - HISTORICAL NITRATE AS N AND TDS DATA





PHASE I ENVIRONMENTAL SITE ASSESSMENT UPDATE

BNSF – Landau, Stephen J. Property
Hodge Road and National Trails Highway (W. Main Street)
Barstow, California 92311
APN: 0420-161-34

Prepared For:
BNSF Railway Company
2500 Lou Menk Drive, AOB-3
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Prepared By:
TRC Environmental Corporation
6 Executive Circle, Suite 200
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949-727-9336

Prepared By:
Sam Franz
Staff Geologist

Reviewed by:
Jose Maldonado
Project Geologist

Project Number:
665566.0000.0000

June 27, 2025

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EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) was retained by BNSF Railway Company (also known as "BNSF" or "Client" or "User") to perform a Phase I Environmental Site Assessment (ESA) Update of the Landau property located near the intersection between Hodge Road and National Trails Highway (W. Main Street) in Barstow, California 92311 (herein referred to as the "subject property"). TRC conducted the Phase I ESA in connection with the Client's planned purchase of the subject property. This report provides an update to the TRC Phase I ESA Report dated October 3, 2024 (TRC, 2024) and includes results from a geophysical survey performed in May 2025 (TRC, 2025). The Phase I ESA described in this report was performed in accordance with the scope and limitations of the ASTM International Practice E1527-21 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (hereinafter "ASTM Practice E1527-21" or "ASTM Standard"). Limiting conditions and/or deviations from the ASTM Practice E1527-21 standard are described in Sections 1.3 and 7.7 of this report.

The subject property is a partial acquisition (approximately 0.66-acre) located along the northern boundary of the greater parcel identified by Assessor's Parcel Number 0420-161-34. The subject property is currently vacant with no structural improvements, zoned as vacant/rural living, and has been owned by Landau, Stephen J. since June 10, 2008.

Phase I ESA Update Findings

This Phase I ESA Update has identified the following recognized environmental conditions (RECs) in connection with the subject property, listed below:

- **REC No. 1 - N&M Dairy Farm**: Through the information gathered from the historical review, the N&M Dairy Farm facility located approximately 1-mile west of the subject property presents a moderate threat to water quality that could have an adverse impact on the domestic or municipal water supply in the surrounding area of the subject property. It is noted that the subject property is located within the Lahontan Regional Water Quality Control Board (RWQCB) study area. Based on the open status of the Waterboard case, historical waste management violations, and nitrate exceedances in groundwater dating to the early 2000's, this finding has been identified as a REC. However, additional groundwater assessment is not recommended due to the overall compliance with waste management and discharge requirements associated with the clean-up and abatement order issued by the RWQCB, as well as the subsequent environmental investigations for groundwater which show a downward trend for nitrate levels in the surrounding area.
- **REC No. 2 – Partially Buried 55-gallon Drum and Other Metal Debris**: On the ground surface, one partially buried, rusted, unlabeled, 55-gallon drum, and a gas tank and roof of an old automobile were observed in an area of apparent excavation/trenching and illegal dumping containing scrap metal and concrete debris located near the northwestern boundary of the subject property. The drum appeared to be empty and there was no evidence of spills, leaks, or staining in the surrounding surfaces; however, it is noted that stressed vegetation was observed in the in the area adjacent to the buried drum. Based on the unknown content of the partially buried drum, and the gas tank and roof of an old automobile on the ground surface, this finding has been identified as a REC.

No other controlled RECs (CRECs) or historical RECs (HRECs) in connection with the subject property were identified.

Although not a REC per the ASTM definition, the following items are noted, and BNSF should be aware of potential environmental conditions which may or may not require further evaluations:

- According to FEMA's Flood Zone Designations, the subject property is located in Zone D, which represents an Area of Undetermined Flood Hazard. Given the area designation, flooding may represent a potential risk.
- The PG&E Hinkley site, a well-known and high-profile site involving contamination of groundwater by hexavalent chromium (this is the "Erin Brockovich Site") is located approximately 8.25 miles to the northeast of the subject property (i.e., north of the Mojave River). Since the PG&E site is >1 mile from the subject property, it is not identified in the EDR Report, and TRC does not consider it to be a REC. However, BNSF should be aware of the site and its location relative to the properties being acquired by BNSF in this area.

Recommendations

- As identified during the Phase I ESA inspection and geophysical survey, debris materials associated with the Subject Property were encountered both on the ground surface and buried in four areas (referred as Anomalies 1 through 4 from the 2025 TRC Technical Memorandum in **Appendix E**). This debris material should be addressed and/or properly disposed of during closing and/or development.
- If during grading or redevelopment, evidence for soil contamination is identified such as staining or odors, the potential presence of septic systems, and/or buried structures or piping are identified, further evaluations and soil sampling would be recommended.

This Executive Summary is part of this complete report; the findings, opinions, or conclusions in this Executive Summary are made in context with the complete report. TRC recommends that the User read the entire report for supporting information related to findings, opinions, and conclusions.

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this Phase I Environmental Site Assessment (ESA) Update Report for BNSF Railway Company (hereinafter, “BNSF,” “Client,” or “User”). This report was prepared for and may be relied upon by Client and User for the purposes set forth herein; it may not be relied on by any party other than the Client and User.

1.1 Purpose and Scope of Services

The following Phase I ESA Update Report was performed for the Landau, Stephen J. Property located near the intersection between Hodge Road and National Trails Highway (W. Main Street) in Barstow, California 92311 (hereinafter the “subject property”). The subject property location map is included as **Figure 1**. This report provides an update to the TRC Phase I ESA Report dated October 3, 2024 (TRC, 2024) and includes results from a geophysical survey performed in May 2025 (TRC, 2025). TRC prepared this Phase I ESA Update Report in accordance with the ASTM International E1527-21 *Standard Practice for Environmental Site Assessments: Phase I ESA Process* (hereinafter “ASTM Practice E1527-21” or “ASTM Standard”) and is intended for the sole use of BNSF.

The purpose of this Phase I ESA Update is to identify environmental conditions (RECs) at the subject property, as defined by ASTM Practice E1527-21. The completion of this Phase I ESA report may be used to satisfy one of the requirements for the User to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser liability protections pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice as defined by 42 United States Code §9601(35)(B) of CERCLA.

The Scope of Services for this Phase I ESA Update included the following tasks:

- Perform a reconnaissance of the Site and vicinity;
- Provide a description of current Site operations and uses;
- Conduct a review of standard historical sources and provide a description of historical Site and adjoining property conditions;
- Conduct interviews with Site owners, operators, occupants, and/or local government officials, as applicable;
- Conduct a review of federal, state, tribal, and local environmental records sources and regulatory agency records, as applicable;
- Conduct a review of previous environmental reports/documentation, as provided to TRC;
- Document the results of a search for environmental liens and activity and use limitations (AULs); and
- Prepare an updated Phase I ESA report summarizing the findings, opinions, and conclusions.
- Subject property and vicinity description and physical setting;

- Historical sources review and a description of historical subject property and adjoining property conditions;
- Interviews with owners, operators, and/or occupants of the subject property, and/or local officials;
- Review of environmental databases and regulatory agency records;
- Review of previous environmental reports/documentation, as applicable;
- Review of environmental liens, if provided or authorized to obtain by the User; and
- Preparation of a report summarizing findings, opinions, and conclusions.

1.2 Additional Services

Items outside the scope of ASTM Practice E1527-21 are, but are not limited to the following:

- Substances not defined as Hazardous Substances
- Asbestos-containing building materials
- Radon
- Lead-based paint
- Lead in drinking water
- Wetlands
- Regulatory compliance
- Cultural and historic resources
- Industrial hygiene
- Health and safety
- Ecological resources
- Endangered species
- Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment
- Biological agents
- Mold
- Polychlorinated Biphenyl (PCB)-containing building materials

No additional services were performed outside the scope of ASTM Practice E1527-21.

1.3 Deviations to ASTM Practice E1527-21

No significant deviations or deletions to the ASTM Standard were made during this Phase I ESA Update.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Subject Property Location and Description

The subject property location, ownership, and parcel information are included in the following table. A subject property location map is included as **Figure 1**.

Table 2.1 - Subject Property Location and Description

Location	Located near the intersection between Hodge Road and National Trails Highway (W. Main Street).
Primary use of surrounding area	Vacant/Rural Living
Acreage	+/- 0.66 acres
Parcel Number	0420-161-34 (partial acquisition)
Zoning	Vacant/Rural Living
Owner & Operator	Landau, Stephen J

2.2 Subject Property Improvements

Current subject property improvements are listed in the following table. A subject property layout is included as **Figure 2**.

Table 2.2 - Subject Property Improvements

Buildings	None
Exterior areas	Exterior areas are primarily unpaved with areas of dense desert vegetation. The Burlington Northern Sante Fe (BNSF) railroad is located directly north, and W. Main Street is located directly south of the subject property.
On-site roads/rail lines	Several unpaved access roads leading up the Burlington Northern Sante Fe railroad cut across the subject property.
Potable water supply	None
Sewage disposal system(s)	None
Stormwater system	Overland flow.
Heating system (supplier)	None
Cooling system (supplier)	None
Back-up fuel source(s)	None
Electricity supplier(s)	None

2.3 Current and Historical Subject Property Use

2.3.1 Current Subject Property Use(s)

The subject property is currently a vacant property with no structural improvements and several unpaved roads that transect the property.

2.3.2 Previous Owner and Operator Information

Historical site ownership is generally summarized below as it is listed in the San Bernardino County Property Information Management System (PIMS). Both current and historical property ownership can be viewed in the PIMS Reports, which are included in **Appendix C**.

Table 2.3 - Previous and Current Owner & Operator Information

Landau, Stephen J	Current Owner	03/16/1983	Present
Loma Linda University	Previous Owner	01/27/1983	03/15/1983
State of California TC	Historical Owner	1982	01/26/1983

2.4 Physical Setting

According to United States Geological Survey topographic maps reviewed, including the map included as **Figure 1**, the subject property topographic elevation is approximately 2,332 feet above mean sea level, and local topography is generally to the northwest. Groundwater flow direction in the Mojave River Groundwater Basin near the subject property is generally to the north.

The database radius report, supplied by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, dated April 25, 2025, was reviewed to obtain information regarding the dominant soil composition in the vicinity of the subject property. This information is summarized below:

Soil Map ID 1

Hydric Status: Not hydric
Soil Surface Texture: Sand
Soil Component Name: Cajon (Class A)
Deeper Soil Types: Sand, stratified gravelly sand to sand

Soil Map ID 2

Hydric Status: All Hydric
Soil Surface Texture: Not Reported
Soil Component Name: Riverwash (Class A)
Deeper Soil Types: Not Reported

Soil Map ID 3

Hydric Status:	Not hydric
Soil Surface Texture:	Not Reported
Soil Component Name:	Victorville (Class B)
Deeper Soil Types:	Not Reported

Please refer to the Geocheck Physical Setting Source Summary of the EDR report presented in **Appendix A** for further information regarding the soil composition in the vicinity of the subject property. Per Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map 06071C4515H, dated August 28, 2008, the subject property is located in Zone D. According to FEMA's Flood Zone Designations, Zone D represents an area of undetermined flood hazard. Given the proximity of the subject property to the Mojave River, flooding may represent a potential risk. See **Appendix C** for the FEMA map.

3.0 USER-PROVIDED INFORMATION

According to ASTM Practice E1527-21, certain tasks that may help identify the presence of RECs associated with the subject property are generally conducted by the Phase I ESA Update User. These tasks include providing or authorizing the environmental professional to obtain recorded land title records for environmental liens or AULs; providing specialized knowledge related to RECs at the subject property (e.g., information about previous ownership or environmental litigation); providing commonly known or reasonably ascertainable information within the local community about the subject property that is material to RECs in connection with the subject property; and informing the environmental professional if, as believed by the User, the purchase price of the subject property is lower than the fair market value due to contamination. A User questionnaire was not provided.

3.1 Records for Environmental Liens or Activity and Use Limitations

The User has not provided TRC with information associated with a review of title and judicial records for environmental liens or AULs associated with the subject property and may remain as a User requirement to satisfy All Appropriate Inquiries.

An Environmental Lien Search dated May 20, 2025, was provided by EDR for parcel 0420-161-34. No environmental liens or AULs were identified for the parcel. A copy of the environmental lien report is included in **Appendix B**.

3.2 Reason for Conducting a Phase I ESA Update

TRC understands the User requires a Phase I ESA Update for their planned purchase of the subject property.

4.0 RECORDS REVIEW

4.1 Historical Research

Information regarding subject property and vicinity historical uses was obtained from various publicly available and practically reviewable sources including:

- Aerial photographs provided by EDR dated April 25, 2025, for the following years: 1953, 1970, 1978, 1984, 1994, 2005, 2009, 2012, 2016, and 2020.
- Topographic maps provided by EDR dated April 25, 2025, for the following years: 1932, 1934, 1956, 1971, 1984, 1993, 2012, 2015, 2018, and 2021.
- City directories provided by EDR dated April 30, 2025, for the following years: 1964, 1971, 1976, 1980, 1986, 1992, 1995, 2000, 2005, 2010, 2014, 2017, and 2020.
- Local municipal records.
- An environmental database report provided by EDR on May 20, 2025.
- Interviews with subject property representative(s) and regulatory agency officials, as necessary.

As indicated above, the aerial photographs, topographic maps, city directories, Sanborn Maps®, and the environmental database report were provided by EDR. Historical research documentation is included in **Appendix B**.

Historical Sanborn® Fire Insurance Maps (Sanborn Maps®) were originally produced for assessing fire insurance liability in urban areas in the United States. The maps provide detailed information (e.g., building construction, subject property occupants, storage tank locations, and hazardous material storage areas), which can be used as a resource to document land use and structural change over time. EDR researched the availability of Sanborn Maps® in the vicinity of the subject property; however, EDR stated that Sanborn Map® coverage does not exist for the subject property or nearby surrounding area.

4.1.1 Subject Property History

Operational History

Table 4.1 - Subject Property History

From at least 1932 to Present	According to the historical aerial photographs and topographic maps from at least 1932 to present, the subject property has remained vacant land with several unpaved access roads that lead up the BNSF right-of-way to the north. No structural improvements are depicted during this period. The subject property does not have a current or historical address and was not listed in the city directory, or the building report provided by EDR.

4.1.2 Adjoining Property History

Table 4.2 - Adjoining Property History

North	Since at least 1932, the subject property has been bordered by the BNSF railroad to the north, followed by a desert property located within the Mojave River basin as depicted in the aerial photographs and topographic maps. The north adjoining property does not have a current or historical address, and the property was not listed in the city directory, or the building report provided by EDR.
East	Since at least 1932, the east adjoining property has been primarily undeveloped vegetated desert land with an unpaved road that connects the National Trails Highway to the BNSF railroad to the north. The unpaved road was first depicted in the 1956 topographic map. The east adjoining property does not have a current or historical address, and the property was not listed in the city directory, or the building report provided by EDR.
South	From at least 1932 to 1984, the greater parcel (APN: 0420-161-34) was bordered by National Trails Highway (W. Main Street) to the south, followed by vacant and undeveloped land. By at least 1993, the south adjoining property appears to have been improved with a residence as depicted in the topographic map and confirmed in the 2005 aerial image. By 2009, the residential area appears to be lined with trees and fencing and remains in that configuration to the present. The south adjoining property address (19855 National Trails Highway) was listed in the 2010 city directory under the name Eraclio Baldovinos; however, it was not listed in the building report provided by EDR.
West	From at least 1932 to 1953, the west adjoining property was vacant and undeveloped land. By at least 1970, the west adjoining property appears to have been improved with one large barn structure and four smaller structures located on the western half of the property. The barn structure was first depicted in the 1971 topographic map. By at least 1984, the barn structure appears to have been demolished and only the smaller structures remain on the property. The west adjoining property does not have a current or historical address, and the property was not listed in the city directory, or the building report provided by EDR.

4.1.3 Surrounding Property History

Since at least 1932, the surrounding area was primarily vacant and undeveloped desert. Residential and agricultural developments were evident to the southeast and west starting in the 1970s. The subject property is bordered by the BNSF railroad to the north, followed by the Mojave River basin further to the north, and the National Trails Highway (W. Main Street) is located to the south.

4.2 Database Report and Environmental Record Review

A database search report that identifies properties listed on state and federal databases within the ASTM-required radii of the subject property was obtained from EDR. These properties included those that could be mapped and those that could not (i.e., orphan properties). A copy of the database search report is included in **Appendix A**. The database search report includes the list of environmental databases/records searched and their corresponding abbreviations.

4.2.1 Subject Property

No records/listings were identified for the subject property in the environmental database report.

4.2.2 Adjoining and Surrounding Property Record Review

TRC evaluated the following factors to determine whether additional environmental records should be reviewed with respect to the potential for contaminant migration from the adjoining and surrounding properties:

(1) Whether the property is upgradient or downgradient of the subject property related to potential groundwater migration based on the local topography, and the assumed (or known) groundwater depth and shallow groundwater flow direction (refer to Section 2.4 above);

(2) Whether the property is upgradient or downgradient of the subject property related to potential vapor migration based on readily available information pursuant to ASTM Practice E1527-21 including soil and geological characteristics; contaminant characteristics; contaminated plume migration data; and significant conduits that might provide preferential pathways for vapor migration such as major utility corridors, sanitary sewers, storm sewers, and significant natural conduits such as karst terrain (vapor migration may also be influenced by the age and design of infrastructure features associated with these conduits);

(3) Property case status (i.e., whether the state environmental agency or applicable regulatory authority has issued a No Further Action (NFA) letter or other similar closure document);

(4) Type of database and whether the presence of contamination is known; and

(5) The distance between the listed property and the subject property.

Based on this evaluation, TRC limited the review of additional environmental records to the properties listed below because the other properties are considered to have a low potential for contamination to migrate to the subject property.

4.2.2.1 Adjoining Properties

No records/listings were identified for the adjoining properties in the environmental database report.

4.2.2.2 Surrounding Properties

No records/listings were identified for the surrounding properties in the environmental database report, however the EDR Radius Map Report identified two unmapped orphan sites. One orphan site is listed under the Solid Waste Information System Database (SWF/LF) but is not mapped in the EDR report. The facility ID for the site is listed as Wildhorse Truckstop Illegal D. S., parcel number (APN): 425-011-21. The site is listed under the ownership of Arrowhead Service Corp. for unpermitted disposal serviced. Additionally, the Park Building Supply orphan site is located at 19859 Hodge Road and is listed in the Superfund Enterprise Management System (SEMS) database. The facility is located approximately 0.2-mile south of the subject property, is not on the National Priority List (NPL), is listed as a removal only site (no assessment work needed) and identifies acetone as the contaminant of concern. TRC contacted Mr. Chris Myers via a telephone call, the On-Scene Coordinator (OSC), Mr. Myers reported that the Park Building facility was a

janitorial supplier with cleaners and degreasers. Between 2019 and 2020, the facility went out of business and approximately one hundred 55-gallon drums of acetone, cleaners and degreasers were collected, overpacked, and removed from the facility. Based on the information summarized above, the relative distance from the subject property, these listings do not appear to represent a REC to the subject property.

The site listings can be found in the EDR Radius Map Report, included in **Appendix B** on page 8 of the Executive Summary and in the Orphan Summary Section on Page 10. No further information was reported.

4.2.3 N&M Dairy Facility

The N&M Dairy facility is located approximately 1.2-miles west of the subject property and known for historically discharging nitrate and total dissolved solids (TDS) contaminants to groundwater in the surrounding area. Since the N&M Dairy facility is >1 mile from the subject property, the facility is not identified in the EDR Report; however, it is noted that the subject is located within the Lahontan Regional Water Quality Control Board (RWQCB) study area. The facility is comprised of two adjacent sites: one at 30061 Lords Road (which was designed to accommodate a maximum of 1,500 cows) and the other at 18200 Lords Road (designed to accommodate a maximum of 800 cows). According to the historical records, the facility generated and discharged approximately 0.05 million gallons per day (MGD) of dairy wash water and approximately 8.9 tons of manure per day. By July 2013, the facility operations closed and has since then undergone closure activities to remove infrastructure and manure. Review of the most recent domestic well sampling report (April 2024) of nitrate as nitrogen (N) and TDS have shown a decreasing trend since the closure of the facility. Based on the open status of the Water Board case, historical waste management violations, and nitrate exceedances in groundwater dating to the early 2000's, this finding has been identified as a REC. However, additional groundwater assessment is not recommended due to the overall compliance with waste management and discharge requirements associated with the clean-up and abatement order issued by the RWQCB, as well as the subsequent environmental investigations for groundwater which show a downward trend for nitrate levels in the surrounding area.

4.2.4 PG&E Hinkley Site

The PG&E Hinkley site, a well-known and high-profile site involving contamination of groundwater by hexavalent chromium (this is the "Erin Brockovich Site") is located approximately 8.25 miles to the northeast of the subject property (i.e., north of the Mojave River). Since the PG&E site is >1 mile from the subject property, the PG&E site is not identified in the EDR Report. However, BNSF should be aware of the site and its location relative to the properties being acquired by BNSF in this area. Generally, the chromium contamination from the PG&E site has impacted groundwater in the area and PG&E provides drinking water to residents in the area surrounding the subject property. There are ongoing remediation and groundwater monitoring programs and an extensive amount of information publicly available online. Review of the latest plume maps indicates that the groundwater flow direction in the PG&E site area is northerly, i.e., away from the subject property. As a result, it does not appear that the PG&E Hinkley site has or would impact the subject property area; however, BNSF should be aware of the proximity of the PG&E site should future plans involve use of groundwater resources. Recent plume maps and information can be reviewed here:

http://www.hinkleygroundwater.com/site-information/groundwater-monitoring-and-plume-maps/

4.3 Other Land Use Records

An Environmental Lien Search was provided by EDR for the subject property. No environmental liens or AULs were identified for parcel 0420-161-34-000. A copy of the environmental lien report is included in **Appendix B**. The deed for the subject property is vested to Stephen J. Landau dated 3/14/1983.

4.4 Other Environmental Record Sources

Per the ASTM Standard, local or additional state records were reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed earlier in this report. Local sources that were contacted to obtain this information are discussed throughout this report: All agency records requests and responses and online database screen captures can be found in **Appendix C**:

Table 4.3 - Other Environmental Record Sources

	TRC contacted the City of Barstow, Office Clerk on April 28, 2025, regarding records for the subject property. At the time of this report, the agency reported that subject property was outside of the City of Barstow jurisdiction and directed TRC to contact the County of San Bernardino.
	TRC searched records from the County of San Bernardino, Department of Land Use Services and Assessors Office on April 25, 2025, regarding the availability of files pertaining to the subject property. No permits were confirmed for the subject property.
	TRC contacted the San Bernardino County Fire Department, Hazardous Materials Division (County HMD) on April 25, 2025, regarding records for the subject property. The county HMD is the local agency regulating UST operations and hazardous material generation and handling. At the time of this report, the agency responded with no records pertaining to the subject project.
	TRC contacted the County of San Bernardino, Department of Environmental Health Services on April 25, 2025, regarding records for the subject property. The County Division of EHS is the local agency regulating septic tanks and well installation or abandonment permits of Barstow, CA. At the time of this report, the agency responded with no records pertaining to the subject project.
	The Lahontan RWQCB (Water Board) was contacted on April 25, 2025 regarding records or files for the subject property and parcel number as they have directed. On May 22, 2025, RWQCB responded via email and concluded its search for the records and has not located any records. The GeoTracker database was reviewed by TRC, and records for the subject property were not identified.
	TRC contacted the California EPA – DTSC Cypress and Chatsworth offices on April 25, 2025, regarding records or files for the subject property associated parcel number and address. No records for the property were identified by DTSC Chatsworth office (no response from Cypress office),

Table 4.3 - Other Environmental Record Sources

and no records for the subject property were identified in the DTSC EnviroStor database.

TRC searched the California Geologic Management Division (CalGEM) Well Finder (WellSTAR) online database search. CalGEM helps in protecting public health, safety, and the environment through its oversight of the oil, natural gas, and geothermal industries. No records were returned through the CalGEM database search.

TRC searched the California Department of Water Resources, Statewide Groundwater Elevation Monitoring (CASGEM) online database. The groundwater monitoring program tracks seasonal and long-term groundwater elevation trends in groundwater basins statewide and relies on voluntary information provided by well owners. No records were returned through the CASGEM database search on the subject property.

5.0 INTERVIEWS

The subject property is currently owned by Stephen J. Landau. The property owner was not present during the site reconnaissance. Additionally, a Phase I ESA Owner Questionnaire was not completed.

6.0 SITE RECONNAISSANCE AND GEOPHYSICAL SURVEY

6.1 Methodology and Limiting Conditions

Sam Franz, TRC Staff Geologist and Joshua Cottingham, TRC Staff Geologist, conducted a site reconnaissance of accessible areas on and around the subject property on May 6, 2025, for the purpose of identifying potential RECs. In addition, based on recommendations in the TRC Phase I ESA (TRC, 2024) for the subject property, a geophysical survey was performed to identify debris materials that were apparently dumped on the subject property on the ground surface and buried in the subsurface. Photographs taken during the site reconnaissance and geophysical survey are provided in **Appendix D,** and a Technical Memorandum prepared by TRC regarding the results of the geophysical survey is provided in **Appendix E**. A subject property layout is included as **Figure 2**.

6.2 Interior and Exterior Subject Property Observations

Unless otherwise noted, the items listed in the table below appeared in good condition with no visual evidence of staining, deterioration, or a discharge of hazardous materials; and there are no records of a release in these areas.

Table 6.1 - Interior and Exterior Subject Property Observations

Hazardous material storage or handling areas	Not Observed	
Solid and liquid wastes including municipal wastes	Current	Pile of trash including cardboard and wood near the center of the subject property.
Underground Storage Tanks (USTs) and associated piping	Not Observed	
Aboveground Storage Tanks (ASTs) and associated piping	Not Observed	
Unlabeled drums and containers (≥5 gallons)	Current	A partially buried, unlabeled 55-gallon steel drum, scrap metal, concrete debris located along the northwestern property boundary. The drum appeared to be empty and there was no evidence of spills, leaks, or staining in the surrounding surfaces, however it should be noted that stressed vegetation was observed in the in the area adjacent to the buried drum. Based on the unknown content of the partially buried drum and stressed

Table 6.1 - Interior and Exterior Subject Property Observations

		vegetation, this finding has finding has been identified as a REC.
Strong, pungent, or noxious odors	Not Observed	
Pools of liquid, including surface water bodies and sumps (handling hazardous substances or substances likely to be hazardous only)	Not Observed	
Known or Likely PCB-containing items (liquid-filled transformers, hydraulic equipment, etc.)	Not Observed	
Stains or corrosion	Not Observed	
Drains and sumps	Not Observed	
Oil water separator	Not Observed	
Pits, ponds, and lagoons	Not Observed	
Stressed vegetation	Not Observed	
Fill material	Not Observed	
Wastewater (discharged from or to the subject property)	Not Observed	
Stormwater (discharged from or to the subject property)	Not Observed	
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, oil and gas wells, or other wells)	Not Observed	
Septic systems or cesspools	Not Observed	
Storage Areas	Not Observed	
Propane Tank	Not Observed	
Miscellaneous Items – Results from the Geophysical Survey conducted on May 6, 2025	Current	Four subsurface anomalies appeared to be in areas with elongated trenches of disturbed soil. These anomalies appear to be concentrated clusters of small debris deposited within purposefully excavated trenches. These trenches may have been excavated and used for improper dumping and burial of debris. Anomalies 1 and 3 appeared to have large, buried objects of potential

Table 6.1 - Interior and Exterior Subject Property Observations

	concern, and all 4 anomalies indicated significant metal debris. The area identified as Anomaly 2 includes the partially buried drum identified from the Phase I ESA site inspection and a partially buried car fuel tank. The area identified as Anomaly 1 includes one large metal debris object that is believed to be a buried old car based on observation of a roof of an old car sticking out of the ground.

6.3 Adjoining and Surrounding Properties Reconnaissance

6.3.1 Adjoining Properties

During the site reconnaissance, TRC viewed the adjoining properties from the subject property and publicly accessible areas (e.g., public roadways, etc.).

Table 6.2 - Adjoining Properties Reconnaissance

North	BNSF Railroad, followed by vacant and undeveloped desert and the Mojave River basin.
East	Vacant and undeveloped desert
South	Residential property with one structure located near the center of the property.
West	Primarily vacant and undeveloped property with several buildings associated with the residential property to the south.

6.3.2 Surrounding Properties

Surrounding properties generally include undeveloped vacant undeveloped desert to the north and east, with a mix of vacant desert, residential, and agricultural properties to the south and west. The BNSF railroad is located directly north of the subject property, followed by the Mojave River basin.

7.0 FINDINGS, OPINIONS, AND CONCLUSIONS

Potential findings can include RECs, controlled RECs (CRECs), historical RECs (HRECs), and de minimis conditions, pursuant to ASTM Practice E1527-21.

RECs are defined as (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment: (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

CRECs are defined as RECs affecting the subject property that have been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, AULs, institutional controls, or engineering controls).

HRECs are defined as previous releases of hazardous substances or petroleum products affecting the subject property that have been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria without subjecting the subject property to any controls (for example, property use restrictions, AULs, institutional controls, or engineering controls). An HREC is not a REC.

De minimis conditions are related to a release that generally does not present a threat to human health or the environmental and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not RECs nor CRECs.

Business environmental risks (BERs) are defined as a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

Data gaps are defined as a lack of or inability to obtain information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the Key Site Manager, regulatory officials, etc.).

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 at the Landau property identified by APN 0420-161-34-0000 and located in Barstow, California 92311. Any exceptions to, or deletions from, this practice are described in Sections 1.3 and 7.7 of this report.

The following findings were noted during the preparation of this report. TRC has provided the Environmental Professional's rationale for concluding whether each finding is or is not currently a REC, CREC, HREC, or de minimis conditions.

7.1 RECs

This assessment has revealed evidence of the following recognized environmental conditions (RECs) in connection with the subject property, listed below:

- **REC No. 1 - N&M Dairy Farm**: Through the information gathered from the historical review, the N&M Dairy Farm facility located approximately 1-mile west of the subject property presents a moderate threat to water quality that could have an adverse impact on the domestic or municipal water supply in the surrounding area of the subject property. It should be noted that the subject property is located within the Lahontan RWQCB study area. Based on the open status of the Waterboard case, historical waste management violations, and nitrate exceedances in groundwater dating to the early 2000's, this finding has been identified as a REC. However, additional groundwater assessment is not recommended due to the overall compliance with waste management and discharge requirements associated with the clean-up and abatement order issued by the RWQCB, as well as the subsequent environmental investigations for groundwater which show a downward trend for nitrate levels in the surrounding area.
- **REC No. 2 – Partially Buried 55-gallon Drum and Other Metal Debris**: On the ground surface, one partially buried, rusted, unlabeled, 55-gallon drum, and a gas tank and roof of an old automobile were observed in an area of apparent excavation/trenching and illegal dumping containing scrap metal and concrete debris located near the northwestern boundary of the subject property. The drum appeared to be empty and there was no evidence of spills, leaks, or staining in the surrounding surfaces; however, it is noted that stressed vegetation was observed in the in the area adjacent to the buried drum. Based on the unknown content of the partially buried drum, and the gas tank and roof of an old automobile on the ground surface, this finding has been identified as a REC.

Although not a REC per the ASTM definition, the following items are noted, and BNSF should be aware of relative to potential environmental conditions which may or may not require further evaluations:

- According to FEMA's Flood Zone Designations, the subject property is located in Zone D, which represents an Area of Undetermined Flood Hazard. Given the area designation, flooding may represent a potential risk.
- The PG&E Hinkley site, a well-known and high-profile site involving contamination of groundwater by hexavalent chromium (this is the "Erin Brockovich Site") is located approximately 8.25 miles to the northeast of the subject property (i.e., north of the Mojave River). Since the PG&E site is >1 mile from the subject property, it is not identified in the EDR Report, and TRC does not consider it to be a REC. However, BNSF should be aware of the site and its location relative to the properties being acquired by BNSF in this area.

7.2 CRECs

This assessment has revealed no evidence of CRECs in connection with the subject property.

7.3 HRECs

This assessment has revealed no evidence of HRECs in connection with the subject property.

7.4 De Minimis Conditions

This assessment has revealed no evidence of de minimis conditions in connection with the subject property.

7.5 Recommendations

The following recommendations are provided:

- As identified during the Phase I ESA inspection and geophysical survey, debris materials associated with the Subject Property were encountered both on the ground surface and buried in four areas (referred as Anomalies 1 through 4 from the 2025 TRC Technical Memorandum in **Appendix E**). This debris material should be addressed and/or properly disposed of during closing and/or development.
- If during grading or redevelopment, evidence for soil contamination is identified such as staining or odors, the potential presence of septic systems, and/or buried structures or piping are identified, further evaluations and soil sampling would be recommended.

7.6 Data Gaps

TRC has made an appropriate inquiry into the commonly known and reasonably ascertainable resources concerning the historical ownership and use of the subject property back to the first development per Section 8.3.8 of ASTM Practice E1527-21. Data gaps identified during this assessment include the following:

1. A completed User Questionnaire was not provided by the User of this assessment. See Section 3.0 for additional information.
2. A completed Owner Questionnaire was not provided by the property owner of this assessment.

Based on other historical sources reviewed, Data Gap Number 1 and 2 are not considered significant.

7.7 Limiting Conditions and Deviations

7.7.1 Accuracy and Completeness

ASTM Practice E1527-21 recognizes inherent limitations for Phase I ESAs that apply to this report, including:

- Uncertainty Not Eliminated – No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Data gaps identified during this Phase I ESA are listed in Section 7.6.
- Not Exhaustive – A Phase I ESA is not an exhaustive investigation.
- Past Uses of the Property – A review of standard historical sources at intervals less than 5 years is not required.

The Client is advised that the Phase I ESA conducted at the subject property is a limited inquiry into a property's environmental status, cannot wholly eliminate uncertainty, and is not an exhaustive assessment to discover every potential source of environmental liability at the subject property. Therefore, TRC does not make a statement i) of warranty or guarantee, express or implied for any specific use; ii) that the subject property is free of RECs or environmental impairment; iii) that the subject property is "clean;" or iv) that impairments, if any, are limited to those that were discovered while TRC was performing the Phase I ESA. This limiting statement is not meant to compromise the findings of this report; rather, it is meant as a statement of limitations within the ASTM Standard and intended scope of this assessment. Specific limiting conditions identified during the site reconnaissance are described in Section 6.1. Subsurface conditions may differ from the conditions implied by surface observations and can be evaluated more thoroughly through intrusive techniques that are beyond the scope of this assessment. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes.

This report presents TRC's site reconnaissance observations, findings, and conclusions as they existed at the time of the site reconnaissance. TRC makes no representation or warranty that the past or current operations at the property are or have been in compliance with applicable federal, state, and local laws, regulations, and codes. TRC makes no guarantees as to the accuracy or completeness of information obtained from others during the course of this Phase I ESA report. It is possible that information exists beyond the scope of this assessment, or that information was not provided to TRC. Additional information subsequently provided, discovered, or produced may alter findings or conclusions made in this Phase I ESA report. TRC is under no obligation to update this report to reflect such subsequent information. The findings presented in this report are based upon reasonably ascertainable information and observed subject property conditions at the time of the assessment.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not assessed. Regardless of the findings stated in this report, TRC is not responsible for consequences or conditions arising from facts that were not fully disclosed to TRC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information regarding surrounding area properties was requested for approximate minimum search distances and was assumed to be correct and complete unless obviously contradicted by TRC's observations or other credible referenced sources reviewed during the assessment.

TRC is not a professional title insurance or land surveyor firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

7.7.2 Warranties and Representations Disclaimer

TRC prepared this document solely for the benefit of the Client and the User. With regard to third-party recipients of this document, neither TRC, nor the Client, nor the User, nor any of their respective parents, affiliates, or subsidiaries, nor any person acting on their behalf: (a) makes any warranty, expressed or implied, with respect to the use of any information or methods disclosed in this document; or (b) assumes any liability with respect to the use of any information or methods

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This report does not warrant against: (1) operations or conditions which were not evident from visual observations or historical information provided; (2) conditions which could only be determined by physical sampling or other intrusive investigation techniques; (3) locations other than the client-provided addresses and/or subject property description; or (4) information regarding off-site location(s) (with possible impact to the subject property) not published in publicly available records.

7.7.3 Continued Validity/User Reliance

This report is presumed to be valid, in accordance with, and subject to, the limitations specified in ASTM Practice E1527-21, for a period of 180 days from the completion of each component using the dates provided in Section 8, or until the Client obtains specific information that may materially alter a finding, opinion, or conclusion in this report, or until the Client is notified by TRC that it has obtained specific information that may materially alter a finding, opinion, or conclusion in this report. Additionally, pursuant to ASTM Practice E1527-21, this report is presumed valid if the required components are completed fewer than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction.

7.7.4 Significant Assumptions

During this Phase I ESA, TRC relied on database information; interviews with subject property representatives, regulatory officials, and other individuals having knowledge of subject property operations; and User-provided information as requested in our authorized Scope of Work. TRC has assumed that the information provided is true and accurate. Reliance on electronic database search reports is subject to the limitations set forth in those reports. TRC did not independently verify the information provided. TRC found no reason to question the validity of the information received unless explicitly noted elsewhere in this report. If other information is discovered and/or if previous reports exist that were not provided to TRC, our conclusions may not be valid.

8.0 REFERENCES

8.1 Persons Interviewed

- None

8.2 Agencies Contacted

Table 8.1 - Reference Information

Regulatory database search and historical sources	05/25/2025	N/A	EDR Inquiry Number: 7970533
Site reconnaissance conducted by Sam Franz	05/06/2025	N/A	N/A
County of San Bernardino, Department of Land Use Services and Assessors Office	05/25/2025	N/A	https://lus.sbcounty.gov/
San Bernardino County Fire Department, Hazardous Materials Division	05/25/2025	N/A	hazmatrecords@sbcfire.org
California EPA-Department of Toxic Substances Control	05/25/2025	N/A	https://www.envirostor.dtsc.ca.gov/public/
California Regional Water Quality Control Board	N/A	N/A	https://geotracker.waterboards.ca.gov/
California Geologic Energy Management Division	N/A	N/A	https://maps.conservation.ca.gov/doggr/wellfinder/#openModal
Statewide Groundwater Elevation Monitoring	N/A	N/A	https://www.casgem.water.ca.gov/OSS/(S(djxih4z3kwyyucrkgcedicys))/Public/ApplicationHome.aspx

8.3 Documents Reviewed

- ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, dated February 2023. www.astm.org.
- EDR Aerial Photo Decade Package prepared for the Landau Property in Barstow, California 92311, dated 4/25/2025. Inquiry number 7970533.8. Aerial photographs were reviewed for the period between 1953 and 2020.

- EDR Certified Sanborn Map Report, prepared for the Landau Property in Barstow, California 92311, dated 4/25/2025. Inquiry number 7970533.3
- EDR City Directory Abstract prepared for the Landau Property in Barstow, California 92311, dated 4/30/2025. Inquiry number 7970533.5. City directories were reviewed for various years between 1964 and 2020.
- EDR Environmental Building Permit Report prepared for the Landau Property in Barstow, California 92311, dated 5/1/2024. Inquiry number 7639145.8.
- EDR Environmental Lien and AUL Search, prepared for the Landau Property in Barstow, California 92311, dated 5/20/2025. Inquiry number 7983198.3S
- EDR Historical Topographic Map Report, prepared for the Landau Property in Barstow, California 92311, dated 4/25/2025. Inquiry number 7970533.4. Topographic maps were reviewed for the period between 1932 and 2021.
- EDR Property Tax Map Report, prepared for the Landau Property in Barstow, California 92311, dated 5/1/2024. Inquiry number 7639145.6.
- EDR Radius Map with GeoCheck®, prepared for the Landau Property in Barstow, California 92311, dated 4/25/2025. Inquiry number 7970533.2s.
    - All EDR documents were prepared by EDR LightBox, 6 Armstrong Road, Shelton, Connecticut 06484, (800) 352-0050, https://www.lightboxre.com/product/edr-environmental-data-resources/.
- Google Earth, https://earth.google.com/web/. This website was first reviewed on 4/25/2025.
- TRC, 2024, Phase I Environmental Assessment (ESA) Report, Landau, Stephen J. Property located at West Main Street and Hodge Road in Barstow, California, October 3.
- TRC, 2025, Technical Memorandum: Summary of Phase I ESA Findings, Results of Geophysical Survey, and Path Forward Recommendations, June 2.

FIGURES

HODGE, CALIFORNIA

LEGEND

APPROXIMATE PROJECT BOUNDARY

0 1,000 2,000

FEET

1:24,000 1" = 2,000'

NV UT

CALIFORNIA

AZ

SITE LOCATION

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT:

BNSF - LANDAU PROPERTY
APN 0420-161-34
BARSTOW, CA 92311

TITLE:

SUBJECT PROPERTY LOCATION MAP

DRAWN BY: R. COLLINS PROJ. NO.: 605453.0000.0000
CHECKED BY: A. RAMIREZ
APPROVED BY: J. MALDONADO

FIGURE 1

DATE: June 2025

6 EXECUTIVE CIRCLE
SUITE 200
IRVINE, CA 92614
PHONE: 949.727.9336

FILE: LANDAU_PI

COORDINATE SYSTEM: NAD 1983 STATEPLANE CALIFORNIA V FIPS 0405 FEET; MAP ROTATION: 0
-- SAVED BY: RCOLLINS ON 9/6/2024, 12:33:08 PM; FILE PATH: T:\1-PROJECTS\BNSF\605453_BARSTOW_CONDEMNATION\LANDAU_PI\2-APRX\LANDAU_PI.APRX; LAYOUT NAME: FIGURE 1

LEGEND

APPROXIMATE PROJECT BOUNDARY

PARTIAL ACQUISITION

SOURCE: HISTORIC IMAGE PROVIDED BY EDR, INQUIRY NUMBER 7639145.11.

0 200 400 FEET

1:4,800 1" = 400'

PROJECT:

BNSF - LANDAU PROPERTY
APN 0420-161-34
BARSTOW, CA 92311

TITLE:

SUBJECT PROPERTY LAYOUT - 2020
AERIAL PHOTOGRAPH

DRAWN BY: R. COLLINS PROJ. NO.: 605453.0000.0000

CHECKED BY: A. RAMIREZ

APPROVED BY: J. MALDONADO

FIGURE 2

DATE: June 2025

6 EXECUTIVE CIRCLE
SUITE 200
IRVINE, CA 92614
PHONE: 949.727.9336

FILE: LANDAU_PI

COORDINATE SYSTEM: NAD 1983 STATEPLANE CALIFORNIA V FIPS 0405 FEET; MAP ROTATION: 0
-- SAVED BY: RCOLLINS ON 9/6/2024, 12:33:08 PM; FILE PATH: T:\1-PROJECTS\BNSF\605453_BARSTOW_CONDEMNATION\LANDAU_PI\2-APRX\LANDAU_PI.APRX; LAYOUT NAME: FIGURE 2 - 2020

06/24/2024

Concrete debris on the surface.

06/24/2024

Southwest facing view from the northeast corner.

06/24/2024

Partially buried 55-gallon drum, concrete debris, scrap metal, and stressed vegetation.

Imagery Date:
5/12/2024

A pile of trash including cardboard, roof shingles, and cardboard.

06/24/2024

Northeast facing from the center of the property.

LEGEND

APPROXIMATE SITE BOUNDARY

NOTES: GOOGLE EARTH IMAGERY DATED: May 12, 2024.

06/24/2024

0 100 200
50

PROJECT: □□□D□□□□R□□□R□□
B□R□□□□ □□□□□□□□□

TITLE: □□B□□□□□□R□□□R□□□□□□□□

DRAWN BY: E. CHOI
CHECKED BY: J. MALDONADO
APPROVED BY: J. MALDONADO
DATE June 2025

PROJ. NO.: 605453.0012

□□□□R□□□□

6 EXECUTIVE CIRCLE
SUITE 200
IRVINE, CA 92614
PHONE: 949.7279336

Appendix A:
Database Radius Report

Landau Property
Not Reported
Barstow, CA 92311

Inquiry Number: 7970533.2s
April 25, 2025

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NOT REPORTED
BARSTOW, CA 92311

COORDINATES

Latitude (North):	34.7954920 - 34˚ 47' 43.77''
Longitude (West):	117.2298080 - 117˚ 13' 47.30''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	478977.1
UTM Y (Meters):	3850191.5
Elevation:	2337 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50004542 HODGE, CA
Version Date:	2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200515
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NOT REPORTED
BARSTOW, CA 92311

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR..... EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

LUST..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory

EXECUTIVE SUMMARY

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE	California Environmental Reporting System Hazardous Waste
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks
CA FID UST	Facility Inventory Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System

EXECUTIVE SUMMARY

COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
UST FINDER RELEASE	UST Finder Releases Database
UST FINDER	UST Finder Database
E MANIFEST	Hazardous Waste Electronic Manifest System
PFAS	PFAS Investigation Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HIST CORTESE	Hazardous Waste & Substance Site List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
HWTS	Hazardous Waste Tracking System
HAZNET	Facility and Manifest Data
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing

NPDES	NPDES Permits Listing
San Bern. Co. Permit	Hazardous Material Permits
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
HAZMAT	Hazardous Material Facilities
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

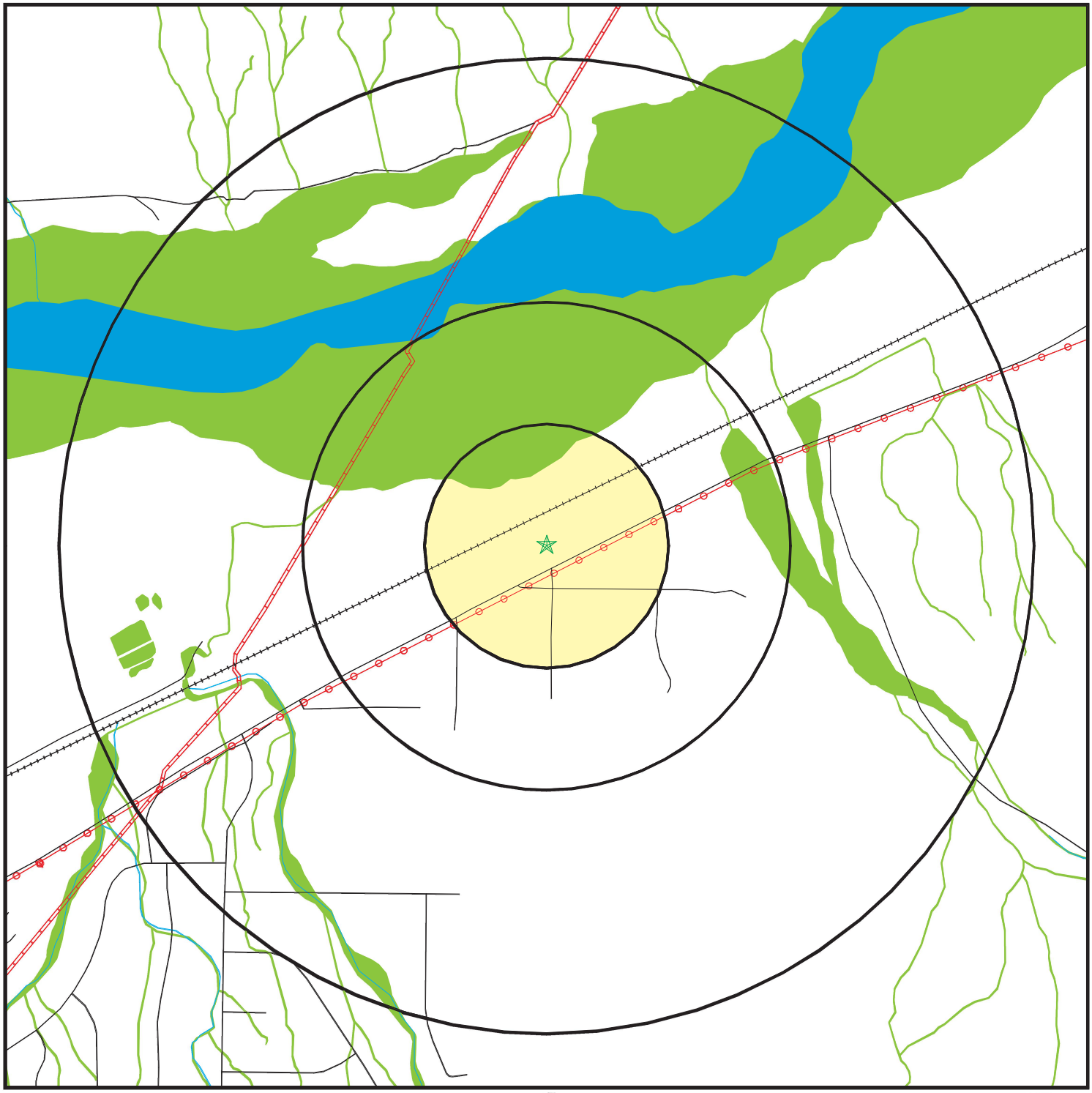
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
PARK BUILDING SUPPLY	SEMS

OVERVIEW MAP - 7970533.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Landau Property	CLIENT: TRC Environmental Consultants
ADDRESS: Not Reported Barstow CA 92311	CONTACT: Sam Franz
LAT/LONG: 34.795492 / 117.229808	INQUIRY #: 7970533.2s DATE: April 25, 2025 8:43 pm

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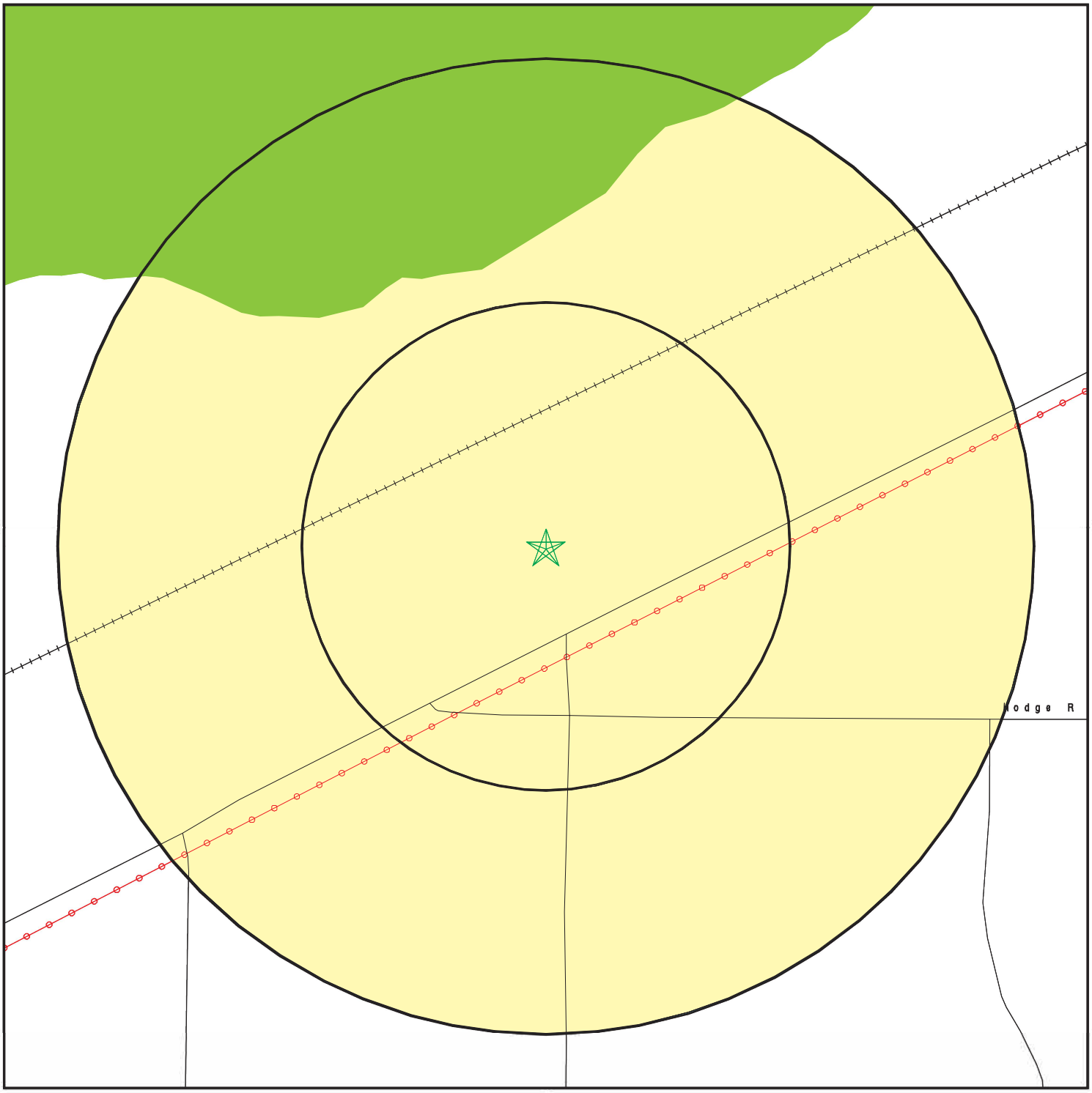
DETAIL MAP - 7970533.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Landau Property ADDRESS: Not Reported Barstow CA 92311 LAT/LONG: 34.795492 / 117.229808	CLIENT: TRC Environmental Consultants CONTACT: Sam Franz INQUIRY #: 7970533.2s DATE: April 25, 2025 8:44 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		0	0	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BARSTOW	1026109595	PARK BUILDING SUPPLY	19859 HODGE RD.	92311	SEMS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 2

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/11/2024
Date Data Arrived at EDR: 11/25/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 85

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 02/11/2025
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/18/2025
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/04/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 02/11/2025
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/18/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 69

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 04/08/2025
Date Data Arrived at EDR: 04/23/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 1

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 11/25/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 01/07/2025
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 11/26/2024
Date Data Arrived at EDR: 11/26/2024
Date Made Active in Reports: 02/20/2025
Number of Days to Update: 86

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/11/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/03/2025
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/13/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 12/12/2024
Number of Days to Update: 27

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/21/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/13/2024
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 08/19/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 51

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 08/19/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 51

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/26/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

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

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/10/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 78

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/18/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 72

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/08/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/03/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/27/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/10/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 7

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/03/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 24

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/01/2025
Date Data Arrived at EDR: 01/17/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 02/26/2025
Date Data Arrived at EDR: 03/03/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/12/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 33

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/20/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 89

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 84

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/07/2025
Number of Days to Update: 16

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/23/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 02/12/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 15

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 30

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/18/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/19/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 27

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 50

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/10/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 69

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 06/04/2024
Date Data Arrived at EDR: 11/22/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 88

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/20/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/11/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 90

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/21/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 67

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/13/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/17/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/13/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 03/06/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/02/2025
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System
EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing
A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/11/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 83

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 09/19/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 87

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 08/23/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 71

Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/29/2024
Date Data Arrived at EDR: 11/07/2024
Date Made Active in Reports: 11/22/2024
Number of Days to Update: 15

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 03/13/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 09/10/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/25/2024
Number of Days to Update: 75

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/26/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 30

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Annually

DRYCLEAN VENTURA: Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/14/2024
Number of Days to Update: 78

Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/26/2024
Number of Days to Update: 76

Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 08/29/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69

Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/14/2024
Date Data Arrived at EDR: 11/15/2024
Date Made Active in Reports: 02/05/2025
Number of Days to Update: 82

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468

Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475

Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473

Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412

Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432

Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89

Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76

Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 10/02/2024
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 78

Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81

Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/06/2024
Number of Days to Update: 72

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76

Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 71

Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 09/03/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69

Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 84

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/11/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/06/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 84

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 87

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 11/08/2024
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 87

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/11/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 12/27/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 03/13/2025
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/19/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 03/31/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/03/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 75

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/07/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/24/2025
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/05/2024
Date Data Arrived at EDR: 09/06/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 68

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/25/2025
Number of Days to Update: 84

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/02/2024
Date Data Arrived at EDR: 12/03/2024
Date Made Active in Reports: 02/25/2025
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/12/2025
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/16/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 03/05/2025
Number of Days to Update: 77

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/16/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/23/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 70

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/06/2025
Date Data Arrived at EDR: 01/07/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 71

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/08/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/17/2024
Number of Days to Update: 75

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 07/09/2024
Date Made Active in Reports: 09/27/2024
Number of Days to Update: 80

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 83

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 03/04/2025
Number of Days to Update: 83

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/18/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 09/26/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 01/07/2025
Number of Days to Update: 82

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/08/2024
Date Data Arrived at EDR: 10/09/2024
Date Made Active in Reports: 10/31/2024
Number of Days to Update: 22

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 02/20/2025
Number of Days to Update: 37

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 10/31/2024
Date Data Arrived at EDR: 10/31/2024
Date Made Active in Reports: 01/24/2025
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/31/2024
Date Data Arrived at EDR: 10/31/2024
Date Made Active in Reports: 01/24/2025
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 36

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/19/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 12/05/2024
Date Data Arrived at EDR: 12/05/2024
Date Made Active in Reports: 12/31/2024
Number of Days to Update: 26

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 01/31/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/12/2024
Date Data Arrived at EDR: 12/16/2024
Date Made Active in Reports: 03/05/2025
Number of Days to Update: 79

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 05/12/2025
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/25/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 72

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/19/2025
Next Scheduled EDR Contact: 06/09/2025
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
A listing of properties that fall within a Maher Ordinance, for all of San Francisco. The Maher Ordinance requires San Francisco Department of Public Health (DPH) oversight for the characterization and mitigation of hazardous substances found in soil, soil vapor, and groundwater in areas designated within the Maher map. The Maher map includes areas with current or historical industrial use or zoning; areas within 100 feet of current or historical underground tanks; filled former Bay, marsh, or creek areas; or areas within 150 feet of a current or former elevated highway. City of San Francisco Planning.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 04/02/2025
Number of Days to Update: 78

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/05/2025
Next Scheduled EDR Contact: 06/23/2025
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/12/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 02/06/2025
Number of Days to Update: 85

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/06/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 02/26/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 11/19/2024
Date Made Active in Reports: 02/12/2025
Number of Days to Update: 85

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/05/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/12/2025
Next Scheduled EDR Contact: 06/30/2025
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/05/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/12/2025
Next Scheduled EDR Contact: 06/02/2025
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/12/2024
Number of Days to Update: 76

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 11/21/2024
Date Data Arrived at EDR: 01/21/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 72

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/11/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/30/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 04/09/2025
Date Made Active in Reports: 04/23/2025
Number of Days to Update: 14

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/04/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 70

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/04/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/19/2025
Date Data Arrived at EDR: 03/25/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 3

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/17/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/02/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/04/2025
Next Scheduled EDR Contact: 05/19/2025
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/06/2025
Next Scheduled EDR Contact: 05/26/2025
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 02/26/2025
Next Scheduled EDR Contact: 06/16/2025
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LANDAU PROPERTY
NOT REPORTED
BARSTOW, CA 92311

TARGET PROPERTY COORDINATES

Latitude (North):	34.795492 - 34˚ 47’ 43.77’’
Longitude (West):	117.229808 - 117˚ 13’ 47.31’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	478977.1
UTM Y (Meters):	3850191.5
Elevation:	2337 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50004542 HODGE, CA
Version Date:	2021

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

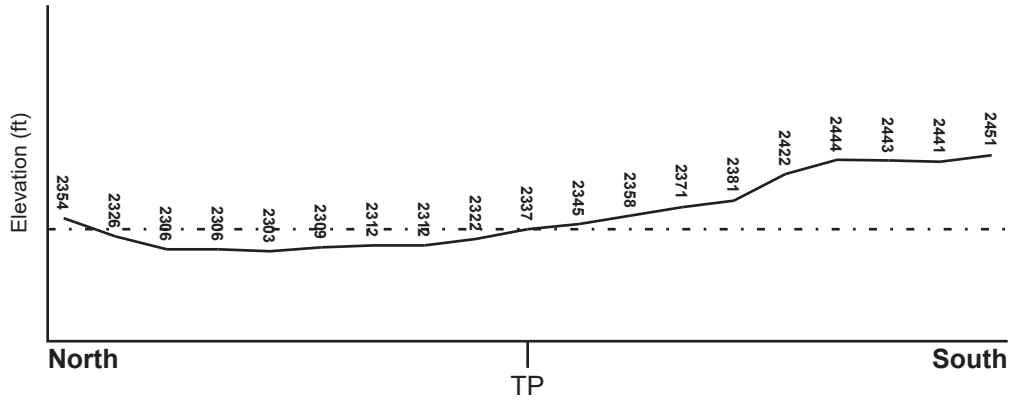
TOPOGRAPHIC INFORMATION

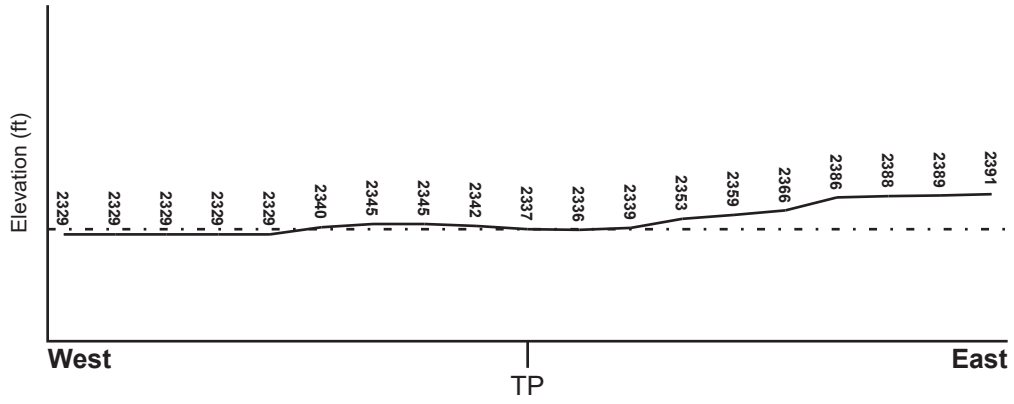
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 2337 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C4525F	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

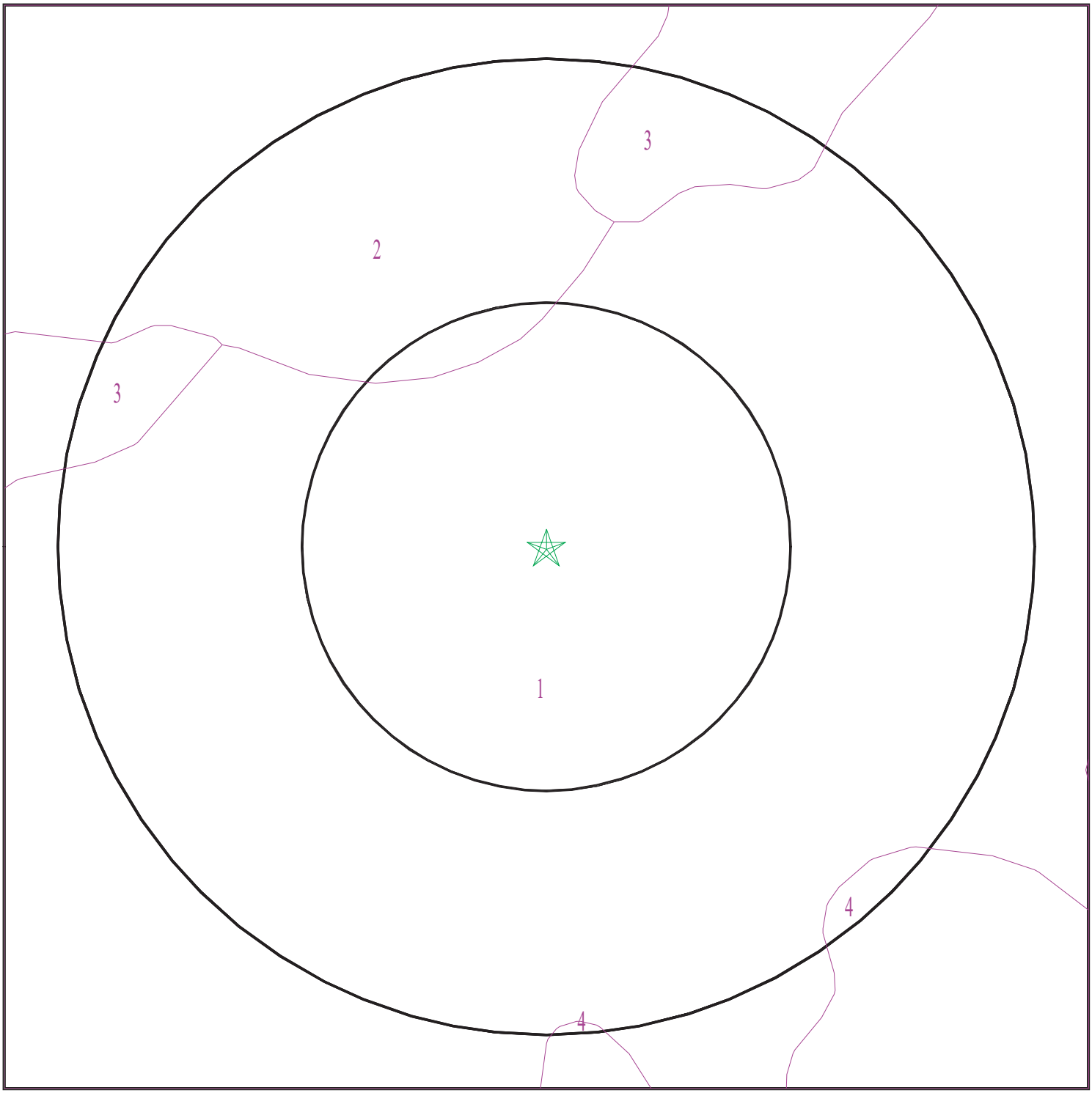
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7970533.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Landau Property	CLIENT:	TRC Environmental Consultants
ADDRESS:	Not Reported Barstow CA 92311	CONTACT:	Sam Franz
		INQUIRY #:	7970533.2s
LAT/LONG:	34.795492 / 117.229808	DATE:	April 25, 2025 8:45 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Cajon

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
2	5 inches	25 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
3	25 inches	59 inches	stratified gravelly sand to sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: RIVERWASH

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:
Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches		Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: VICTORVILLE

Soil Surface Texture:
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	16 inches	35 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	35 inches	48 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	48 inches	59 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: JOSHUA

Soil Surface Texture:

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	5 inches	18 inches		Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
3	18 inches	50 inches		Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000154419	0 - 1/8 Mile NW
A4	USGS40000154389	1/8 - 1/4 Mile ESE
B5	USGS40000154366	1/8 - 1/4 Mile SSW
6	USGS40000154344	1/8 - 1/4 Mile South
B7	USGS40000154345	1/8 - 1/4 Mile SSW
B9	USGS40000154331	1/8 - 1/4 Mile South
C12	USGS40000154451	1/8 - 1/4 Mile NE
B13	USGS40000154325	1/8 - 1/4 Mile South
D15	USGS40000154343	1/4 - 1/2 Mile SE
D17	USGS40000154365	1/4 - 1/2 Mile SE
D18	USGS40000154341	1/4 - 1/2 Mile SE
D19	USGS40000154342	1/4 - 1/2 Mile SE
E20	USGS40000154474	1/4 - 1/2 Mile NNE
E21	USGS40000154473	1/4 - 1/2 Mile NE
G23	USGS40000154523	1/2 - 1 Mile North
F24	USGS40000154472	1/2 - 1 Mile ENE
G25	USGS40000154538	1/2 - 1 Mile North
H26	USGS40000154261	1/2 - 1 Mile SSW
I28	USGS40000154347	1/2 - 1 Mile WSW
I29	USGS40000154346	1/2 - 1 Mile WSW
32	USGS40000154537	1/2 - 1 Mile NE
J33	USGS40000154262	1/2 - 1 Mile SW
J35	USGS40000154256	1/2 - 1 Mile SW
K36	USGS40000154321	1/2 - 1 Mile WSW
K38	USGS40000154326	1/2 - 1 Mile WSW
K39	USGS40000154348	1/2 - 1 Mile WSW
41	USGS40000154260	1/2 - 1 Mile ESE
O46	USGS40000154528	1/2 - 1 Mile NW
M47	USGS40000154499	1/2 - 1 Mile ENE
N49	USGS40000154462	1/2 - 1 Mile ENE
O50	USGS40000154539	1/2 - 1 Mile NW
P52	USGS40000154637	1/2 - 1 Mile NNW
Q54	USGS40000154469	1/2 - 1 Mile ENE
Q55	USGS40000154471	1/2 - 1 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

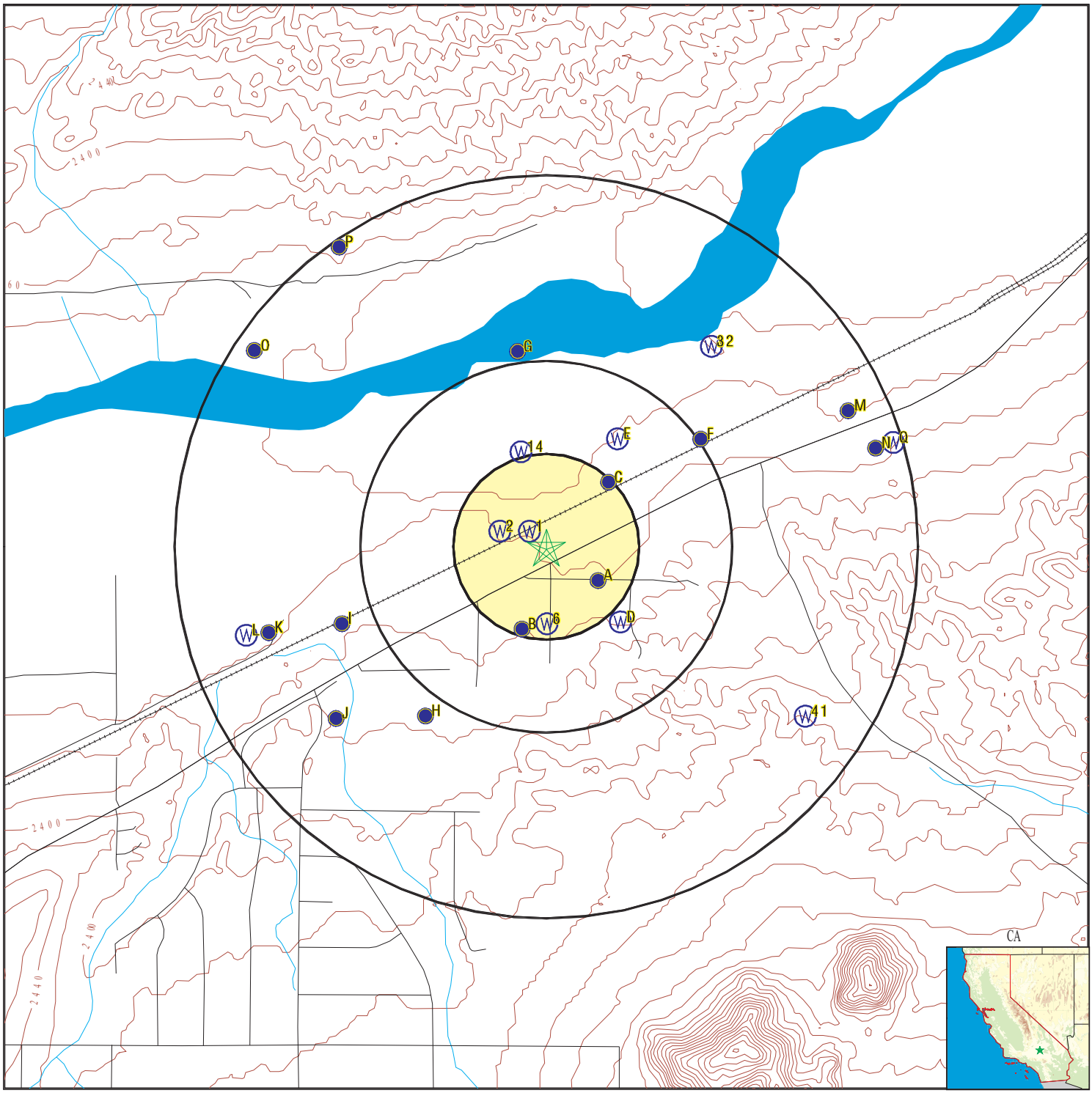
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	CADWR9000013122	1/8 - 1/4 Mile WNW
A3	CADWR9000013107	1/8 - 1/4 Mile SE
B8	CADWR9000013083	1/8 - 1/4 Mile SSW
C10	CADWR9000013140	1/8 - 1/4 Mile NE
B11	CADWR9000013076	1/8 - 1/4 Mile SSW
14	CADWR9000013148	1/4 - 1/2 Mile NNW
B16	CADWR9000013071	1/4 - 1/2 Mile SSW
F22	CADWR9000013153	1/4 - 1/2 Mile NE
G27	CADWR9000013183	1/2 - 1 Mile NNW
H30	CADWR9000013035	1/2 - 1 Mile SW
I31	CADWR9000013084	1/2 - 1 Mile WSW
J34	CADWR9000013036	1/2 - 1 Mile SW
K37	CADWR0000019279	1/2 - 1 Mile WSW
L40	CADWR9000013085	1/2 - 1 Mile WSW
L42	CADWR9000013072	1/2 - 1 Mile WSW
L43	CADWR9000013068	1/2 - 1 Mile WSW
M44	CADWR9000013165	1/2 - 1 Mile ENE
N45	CADWR9000013147	1/2 - 1 Mile ENE
N48	CADWR9000013152	1/2 - 1 Mile ENE
O51	CADWR9000013177	1/2 - 1 Mile WNW
O53	CADWR0000003551	1/2 - 1 Mile WNW
P56	CADWR9000013242	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 7970533.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: Landau Property ADDRESS: Not Reported Barstow CA 92311 LAT/LONG: 34.795492 / 117.229808	CLIENT: TRC Environmental Consultants CONTACT: Sam Franz INQUIRY #: 7970533.2s DATE: April 25, 2025 8:45 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **NW** **0 - 1/8 Mile** **Lower**	**FED USGS**	**USGS40000154419**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07K001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	40.14	Feet to sea level:	Not Reported
Note:	Not Reported		

---

2 **WNW** **1/8 - 1/4 Mile** **Higher**	**CA WELLS**	**CADWR9000013122**

State Well #:	08N03W07K001S	Station ID:	12539
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A3 **SE** **1/8 - 1/4 Mile** **Higher**	**CA WELLS**	**CADWR9000013107**

State Well #:	08N03W07R004S	Station ID:	12542
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A4 **ESE** **1/8 - 1/4 Mile** **Higher**	**FED USGS**	**USGS40000154389**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07R004S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	1957	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	48.71	Feet to sea level:	Not Reported
Note:	Not Reported		

B5
SSW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000154366**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07Q005S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

6
South
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000154344**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07Q004S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	39.90	Feet to sea level:	Not Reported
Note:	Not Reported		

B7
SSW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000154345**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07Q001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B8
SSW
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR9000013083**

State Well #:	08N03W07Q004S	Station ID:	12541
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

B9
South
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000154331**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07Q002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	60.70	Feet to sea level:	Not Reported
Note:	Not Reported		

C10
NE
1/8 - 1/4 Mile
Lower

CA WELLS **CADWR9000013140**

State Well #:	08N03W07H003S	Station ID:	30621
Well Name:	08N03W07H03	Basin Name:	Middle Mojave River Valley
Well Use:	Other	Well Type:	Single Well
Well Depth:	29	Well Completion Rpt #:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
B11 **SSW** **1/8 - 1/4 Mile** **Higher**	**CA WELLS**	**CADWR9000013076**

State Well #:	08N03W07Q002S	Station ID:	12540
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C12
NE
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000154451**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07H003S	Type:	Well
Description:	GPS ROCKWELL, MWA WELL,SOUNDED 28.75 FT MAR 2004		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	28.75
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	2004-03-10
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1998-04-21	Feet below surface:	19.96
Feet to sea level:	Not Reported	Note:	Not Reported

B13
South
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000154325**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07Q003S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	63.58	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
14 **NNW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR9000013148**

State Well #:	08N03W07G001S	Station ID:	12538
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

D15 **SE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000154343**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07R003S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	195705	Well Depth:	91
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B16 **SSW** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADWR9000013071**

State Well #:	08N03W07Q003S	Station ID:	30623
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

D17 **SE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000154365**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07R008S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/-500FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1973	Well Depth:	87
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
D18 **SE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000154341**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07R001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19471031	Well Depth:	60
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D19 **SE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000154342**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07R002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

E20 **NNE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000154474**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07H002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1960	Well Depth:	95
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
E21 **NE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000154473**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07H001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1967	Well Depth:	65
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F22 **NE** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR9000013153**

State Well #:	08N03W08E001S	Station ID:	12544
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G23 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154523**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07B002S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1960	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F24 **ENE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154472**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W08E001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-04
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

G25
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000154538**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07B001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	53.5
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1996-06-04
Feet below surface:	7.25	Feet to sea level:	Not Reported
Note:	Not Reported		

H26
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000154261**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W18C001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +- 500 FT.		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1933	Well Depth:	112
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	3	Level reading date:	1962-03-26
Feet below surface:	70.5	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1958-06-05	Feet below surface:	57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-07-22	Feet below surface:	64.9

Feet to sea level:	Not Reported	Note:	Not Reported

G27
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000013183**

State Well #:	08N03W07B001S	Station ID:	12537
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I28
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000154347**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07N002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	32.78	Feet to sea level:	Not Reported
Note:	Not Reported		

I29
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000154346**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W07N001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	85
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
H30 **SW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000013035**

State Well #:	08N03W18C001S	Station ID:	30627
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I31 **WSW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000013084**

State Well #:	08N03W07N002S	Station ID:	30622
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

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32 **NE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154537**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W08D001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1960	Well Depth:	90
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J33 **SW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000154262**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W18D001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +- 500 FT.		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1954	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-05
Feet below surface:	67.62	Feet to sea level:	Not Reported
Note:	Not Reported		

J34
SW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000013036**

State Well #:	08N03W18D001S	Station ID:	39573
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

J35
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000154256**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W18D002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +- 500 FT.		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

K36
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000154321**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N004W12R003S	Type:	Well
Description:	=COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-10
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Map ID Direction Distance Elevation	Database	EDR ID Number
K37 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR0000019279**

Well ID:	08N04W12R001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	08N04W12R001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=08N04W12R001S&store_num=		
GeoTracker Data:	Not Reported		

	Database	EDR ID Number
K38 **WSW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000154326**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N004W12R002S	Type:	Well
Description:	=COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-10
Feet below surface:	35.33	Feet to sea level:	Not Reported
Note:	Not Reported		

	Database	EDR ID Number
K39 **WSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154348**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N004W12R001S	Type:	Well
Description:	=COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-10
Feet below surface:	1.8	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
L40 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000013085**

State Well #:	08N04W12R001S	Station ID:	30863
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

41 **ESE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000154260**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W17C001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	79
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

L42 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000013072**

State Well #:	08N04W12R002S	Station ID:	10461
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

L43 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000013068**

State Well #:	08N04W12R003S	Station ID:	30864
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
M44 **ENE** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000013165**

State Well #:	08N03W08F001S	Station ID:	12545
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

N45 **ENE** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000013147**

State Well #:	08N03W08G003S	Station ID:	12546
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

O46 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154528**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N004W12A002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-10
Feet below surface:	8.85	Feet to sea level:	Not Reported
Note:	Not Reported		

M47 **ENE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154499**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W08F001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	10	Level reading date:	1996-03-27
Feet below surface:	22.72	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1995-11-13	Feet below surface:	23.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-21	Feet below surface:	22.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-16	Feet below surface:	24.79
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1994-03-24	Feet below surface:	23.22
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1993-11-17	Feet below surface:	23.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-03-25	Feet below surface:	22.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-11-18	Feet below surface:	33.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-03-10	Feet below surface:	36.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-21	Feet below surface:	36.68
Feet to sea level:	Not Reported	Note:	Not Reported

N48
ENE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000013152**

State Well #:	08N03W08G001S	Station ID:	30626
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

N49
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000154462**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W08G003S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	19480623	Well Depth:	63
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-04
Feet below surface:	39.2	Feet to sea level:	Not Reported
Note:	Not Reported		

O50
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000154539**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N004W12A001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	16.1
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-10
Feet below surface:	15.86	Feet to sea level:	Not Reported
Note:	Not Reported		

O51
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000013177**

State Well #:	08N04W12A002S	Station ID:	10453
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

P52
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000154637**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W06N001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	47.8
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-10
Feet below surface:	18.12	Feet to sea level:	Not Reported
Note:	Not Reported		

O53
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000003551**

Well ID:	08N04W12A001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	08N04W12A001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=08N04W12A001S&store_num=		
GeoTracker Data:	Not Reported		

Q54
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000154469**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W08G002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Q55
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000154471**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W08G001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	194810	Well Depth:	92
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-06-04
Feet below surface:	30.06	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
P56 **NW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR9000013242**

State Well #:	08N03W06N001S	Station ID:	30620
Well Name:	Not Reported	Basin Name:	Middle Mojave River Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92311	36	2

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92311

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix B:
Historical Research Documentation

Site Name : Landau Property
Not Reported
Barstow, CA 92311

Inquiry Number: 7983198.3S
May 20, 2025

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel number and/or legal description
- search for current ownership information
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.
- search for publicly available environmental encumbering instrument(s) filed on or after the recording of the current deed; between the recording of the current deed and the most current publicly available date
- provide a copy of any environmental encumbrance(s)
- provide a copy of the current deed when available

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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ADDRESS

Not Reported
Barstow, CA 92311

RESEARCH SOURCE

Source 1: Recorder
State of California
County of San Bernardino

Source 2: Assessor
State of California
County of San Bernardino

PROPERTY INFORMATION

Deed

Type of Deed:	Tax Deed
Title is vested in:	Stephen J. Landau, a single man
Title received from:	San Bernardino Tax Collector
Deed Dated:	3-14-1983
Deed Recorded:	3-16-1983
Book:	83
Page:	055418
Note:	In re: Estate of Stephen J. Landau: Letters of Testamentary filed 3-24-2025 Doc # 2025-0062401

Legal Description: **See deed attached hereto and made a part hereof.**

Legal Current Owner: **Stephen J. Landau, a single man**

Property Identifiers: **0420-161-34-0000**

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:
Recorded:
Book:
Page:
Docket:
Volume:
Instrument:
Comments:
Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:
Recorded:
Book:
Page:
Docket:
Volume:
Instrument:
Comments:
Miscellaneous:

DEED EXHIBIT

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

GOVERNMENT CODE 27361.7

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOLLOWING INFORMATION ON THE DOCUMENT ATTACHED READS AS FOLLOWS:

Pursuant to California Government Code section 68150(g), any order signed or verified by computer shall have the same validity and legal force and effect as paper documents.

PLACE OF EXECUTION: RIVERSIDE, CA DATE: March 24, 2015

BY: _____

Greg Ramos, Stewart Title of California

Landau Property

Not Reported

Barstow, CA 92311

Inquiry Number: 7970533.3

April 25, 2025

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/25/25

Site Name:	Client Name:
Landau Property	TRC Environmental Consultants
Not Reported	17911 VON KARMAN AVE SUITE 400
Barstow, CA 92311	IRVINE, CA 92614
EDR Inquiry # 7970533.3	Contact: Sam Franz

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by TRC Environmental Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # E440-46EB-AA78

PO # NA

Project 665566.9990

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: E440-46EB-AA78

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Landau Property

Not Reported

Barstow, CA 92311

Inquiry Number: 7970533.4

April 25, 2025

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

04/25/25

Site Name:	Client Name:
Landau Property	TRC Environmental Consultants
Not Reported	17911 VON KARMAN AVE SUITE 400
Barstow, CA 92311	IRVINE, CA 92614
EDR Inquiry # 7970533.4	Contact: Sam Franz

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by TRC Environmental Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: 665566.9990

Coordinates:

Latitude:	34.795492 34° 47' 44" North
Longitude:	-117.229808 -117° 13' 47" West
UTM Zone:	Zone 11 North
UTM X Meters:	478977.58
UTM Y Meters:	3850388.35
Elevation:	2337.29' above sea level

Maps Provided:

2021	1934
2018	1932
2015	
2012	
1993	
1984	
1971	
1956	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets

Hodge
2021
7.5-minute, 24000

Wild Crossing
2021
7.5-minute, 24000

2018 Source Sheets

Hodge
2018
7.5-minute, 24000

Wild Crossing
2018
7.5-minute, 24000

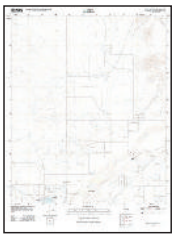
2015 Source Sheets

Hodge
2015
7.5-minute, 24000

Wild Crossing
2015
7.5-minute, 24000

2012 Source Sheets

Hodge
2012
7.5-minute, 24000



Wild Crossing
2012
7.5-minute, 24000

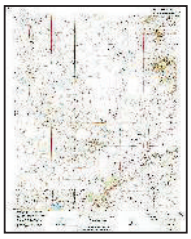
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1993 Source Sheets

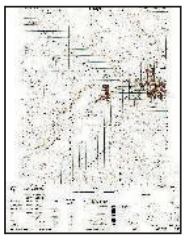
Wild Crossing
1993
7.5-minute, 24000
Aerial Photo Revised 1989

Hodge
1993
7.5-minute, 24000
Aerial Photo Revised 1989



WILD CROSSING
1993
7.5-minute, 24000

1984 Source Sheets



BARSTOW
1984
15-minute, 50000

1971 Source Sheets

Hodge
1971
7.5-minute, 24000
Aerial Photo Revised 1970

1956 Source Sheets

Hawes
1956
15-minute, 62500
Aerial Photo Revised 1952

Barstow
1956
15-minute, 62500
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1934 Source Sheets

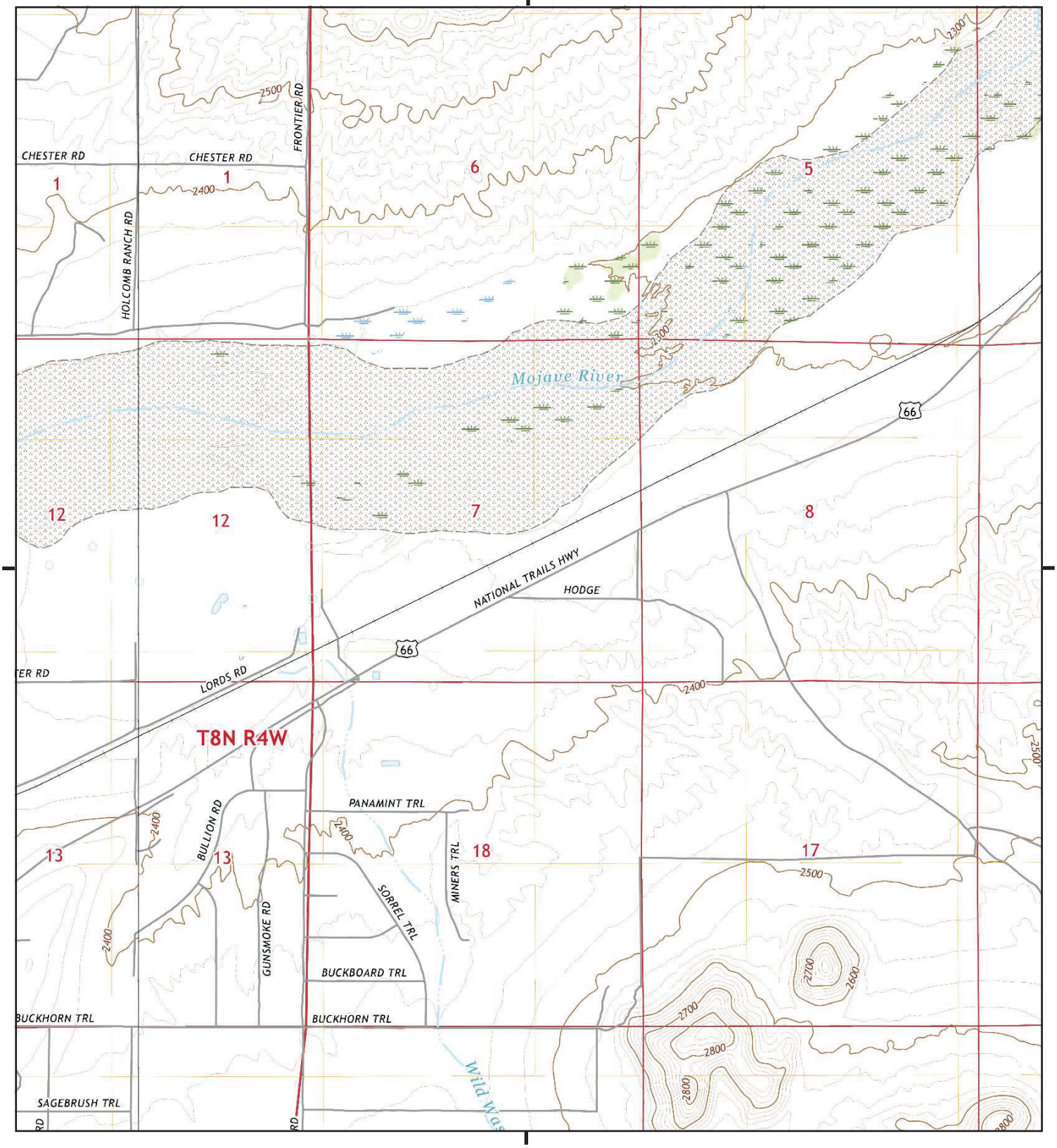
Barstow
1934
30-minute, 125000

1932 Source Sheets

Barstow
1932
30-minute, 125000

Historical Topo Map

2021



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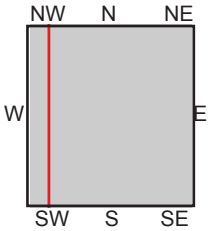


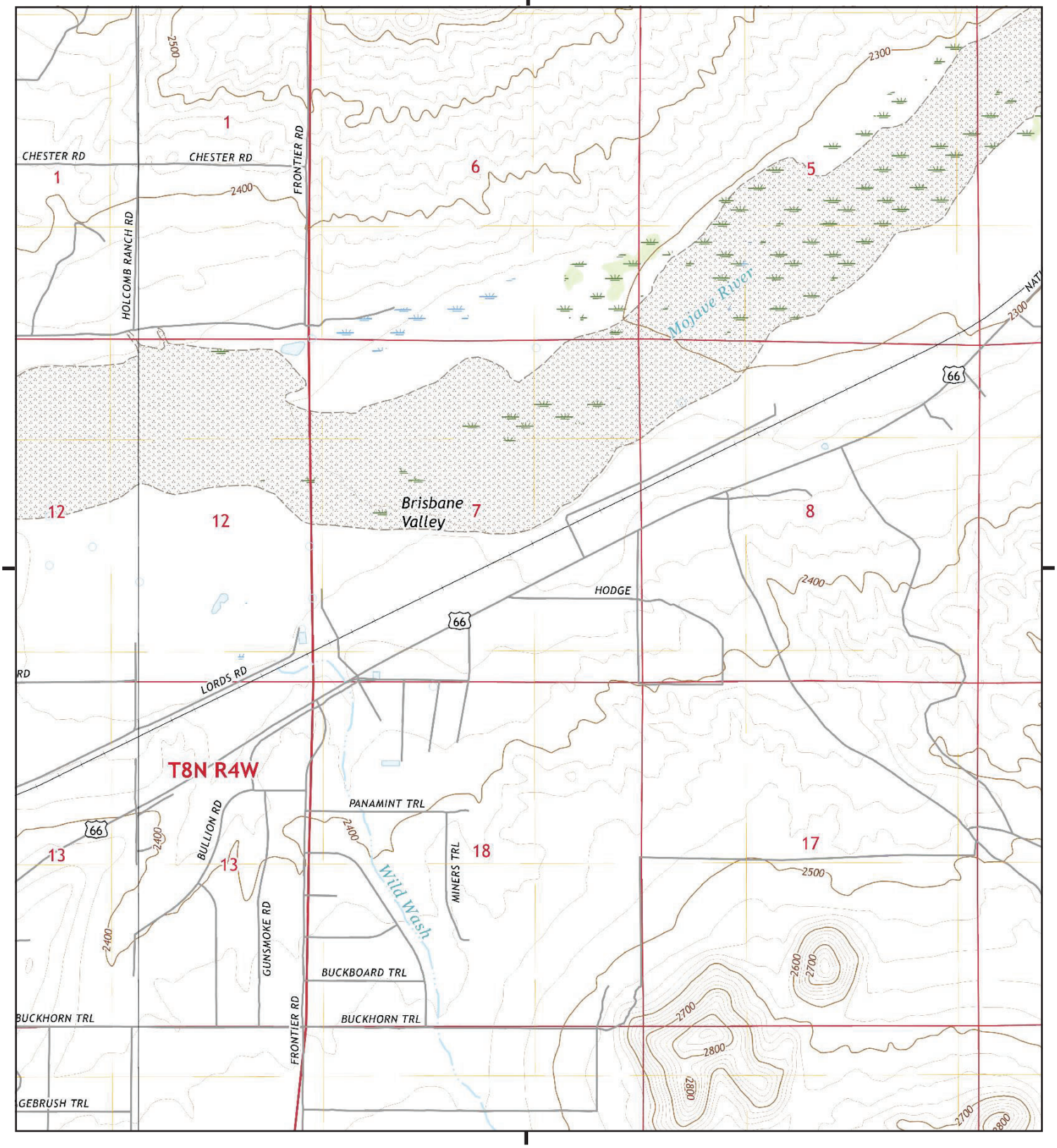
TP, Hodge, 2021, 7.5-minute
W, Wild Crossing, 2021, 7.5-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

2018



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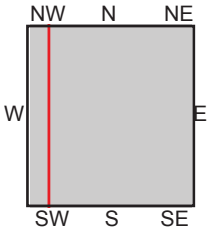


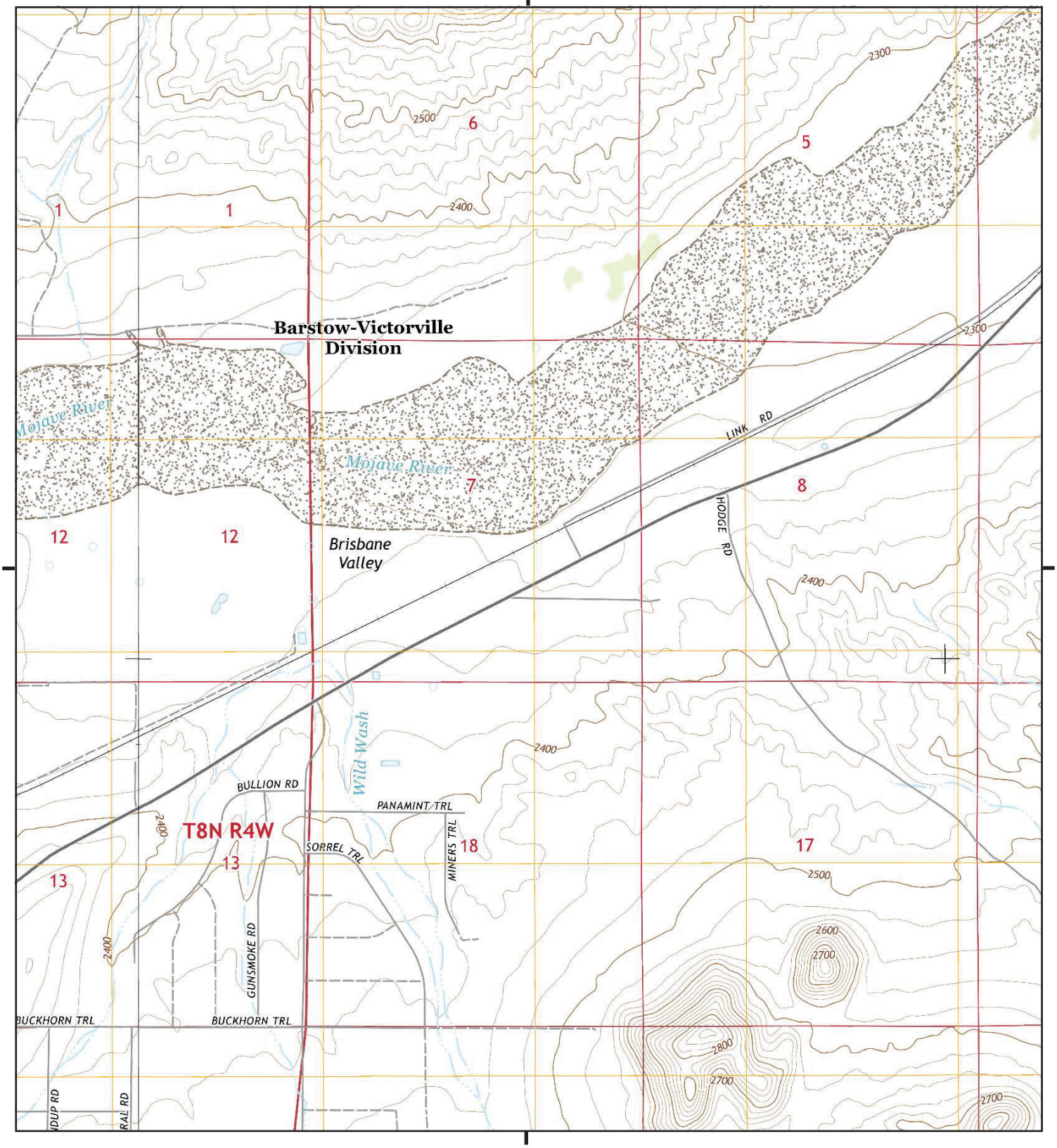
TP, Hodge, 2018, 7.5-minute
W, Wild Crossing, 2018, 7.5-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

2015



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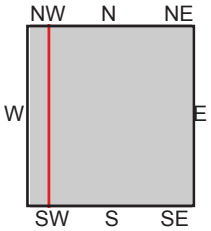


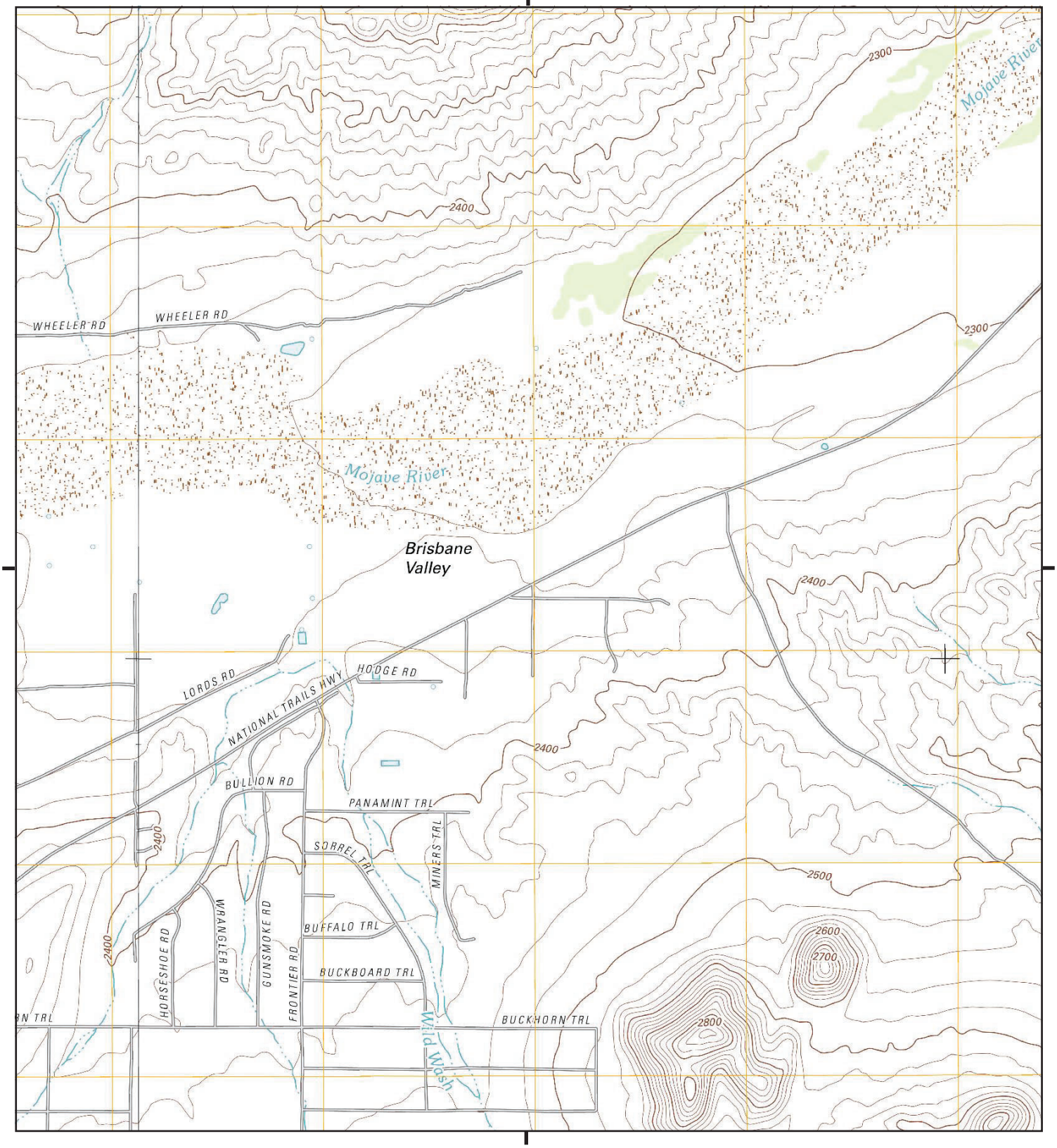
TP, Hodge, 2015, 7.5-minute
W, Wild Crossing, 2015, 7.5-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

2012



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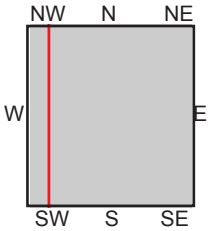
0 Miles 0.25 0.5 1 1.5



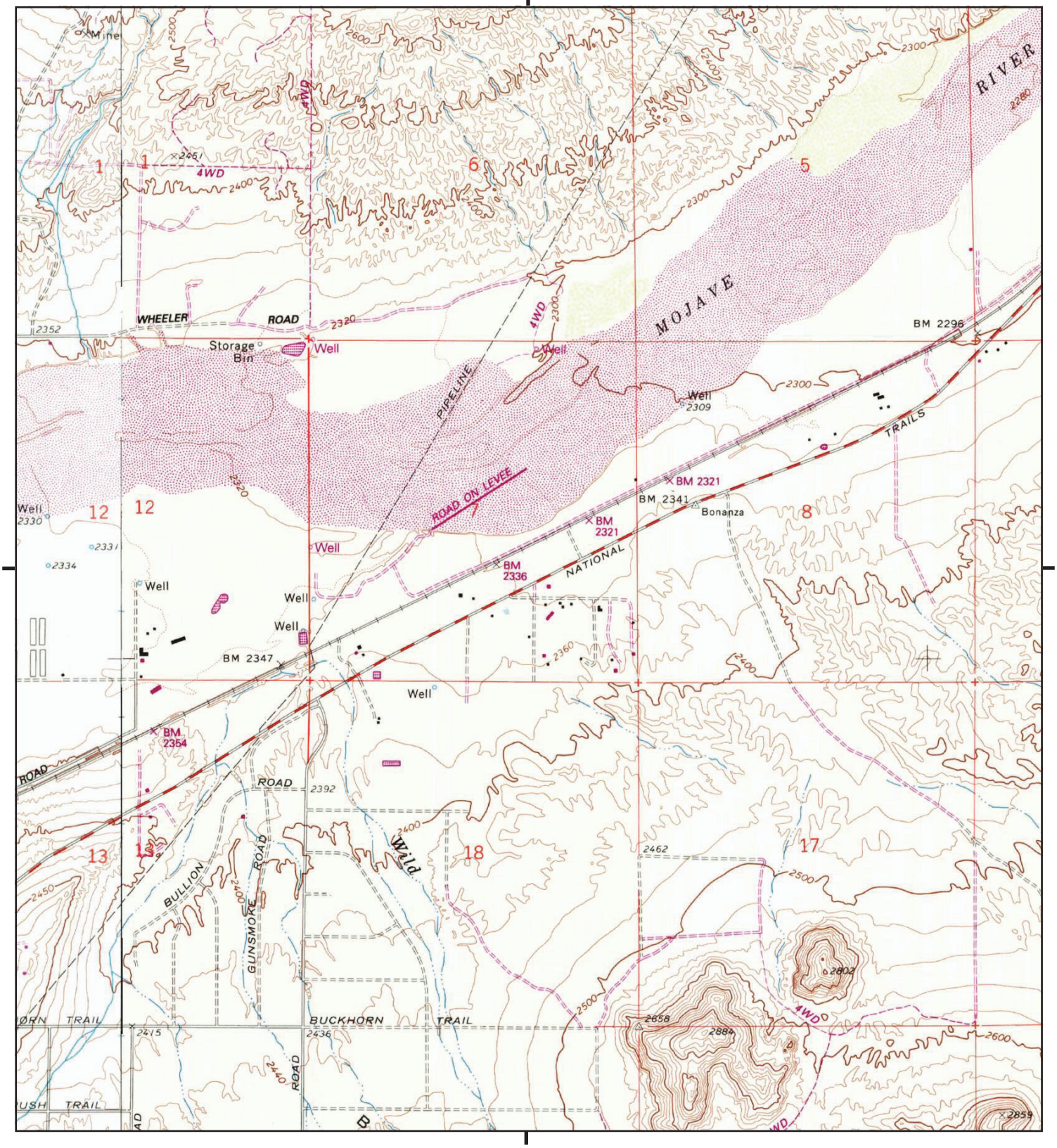
TP, Hodge, 2012, 7.5-minute
W, Wild Crossing, 2012, 7.5-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1993



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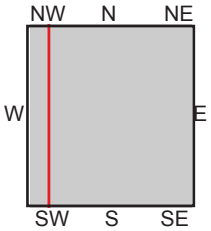


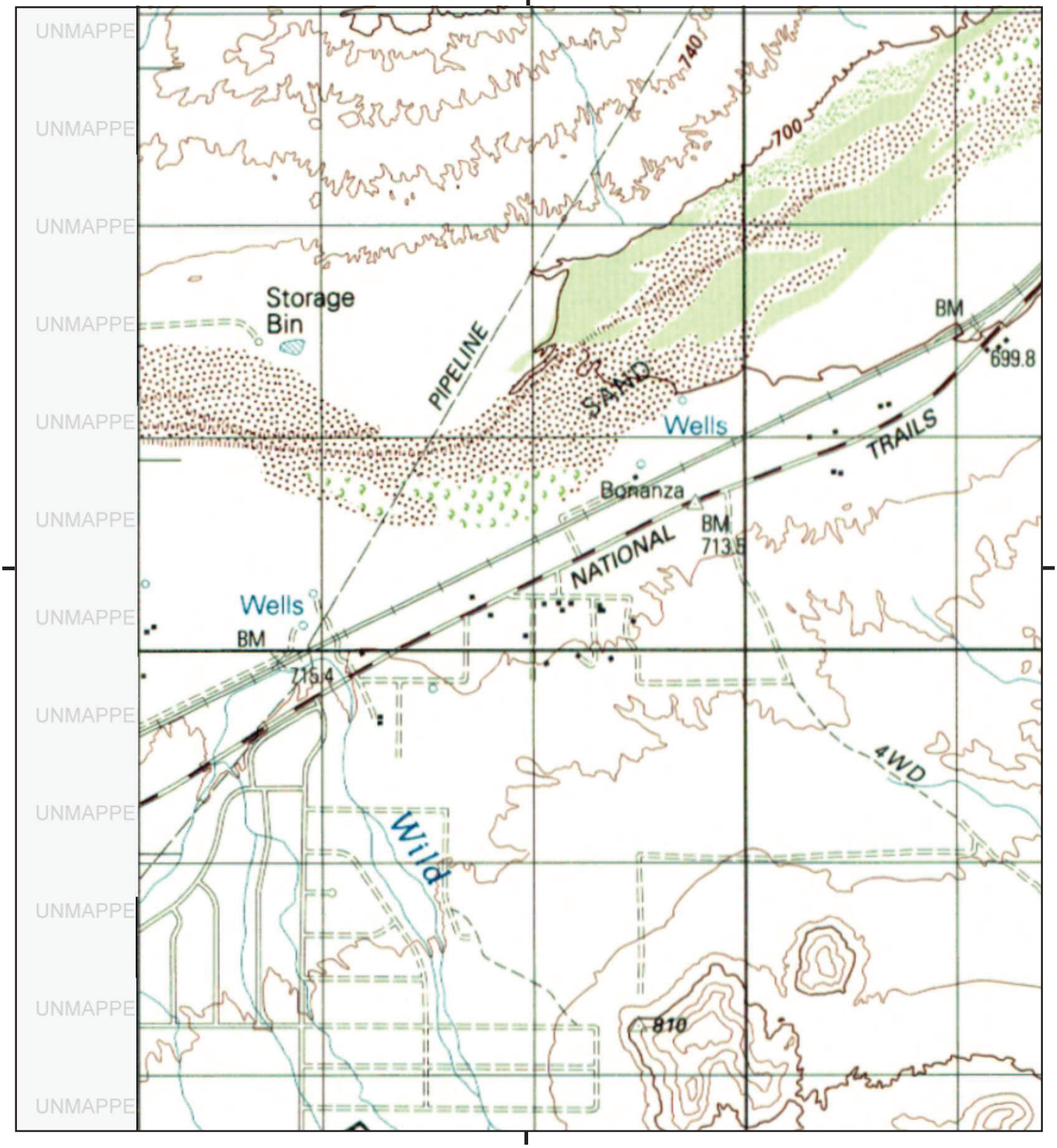
TP, Hodge, 1993, 7.5-minute
W, Wild Crossing, 1993, 7.5-minute
W, WILD CROSSING, 1993, 7.5-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1984



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

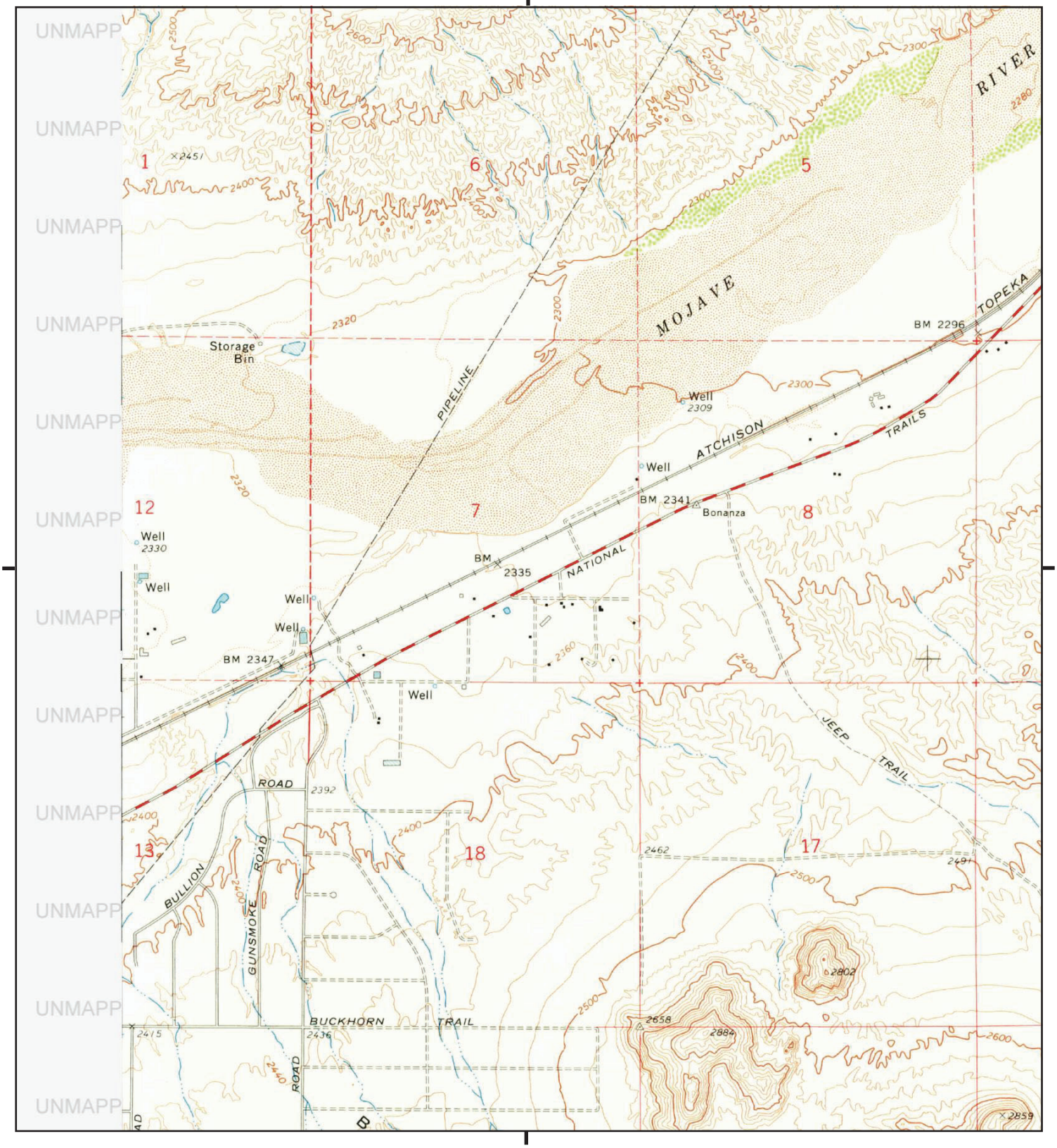
TP, BARSTOW, 1984, 15-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1971



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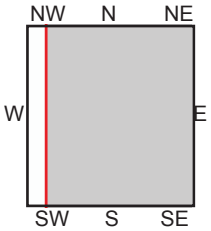


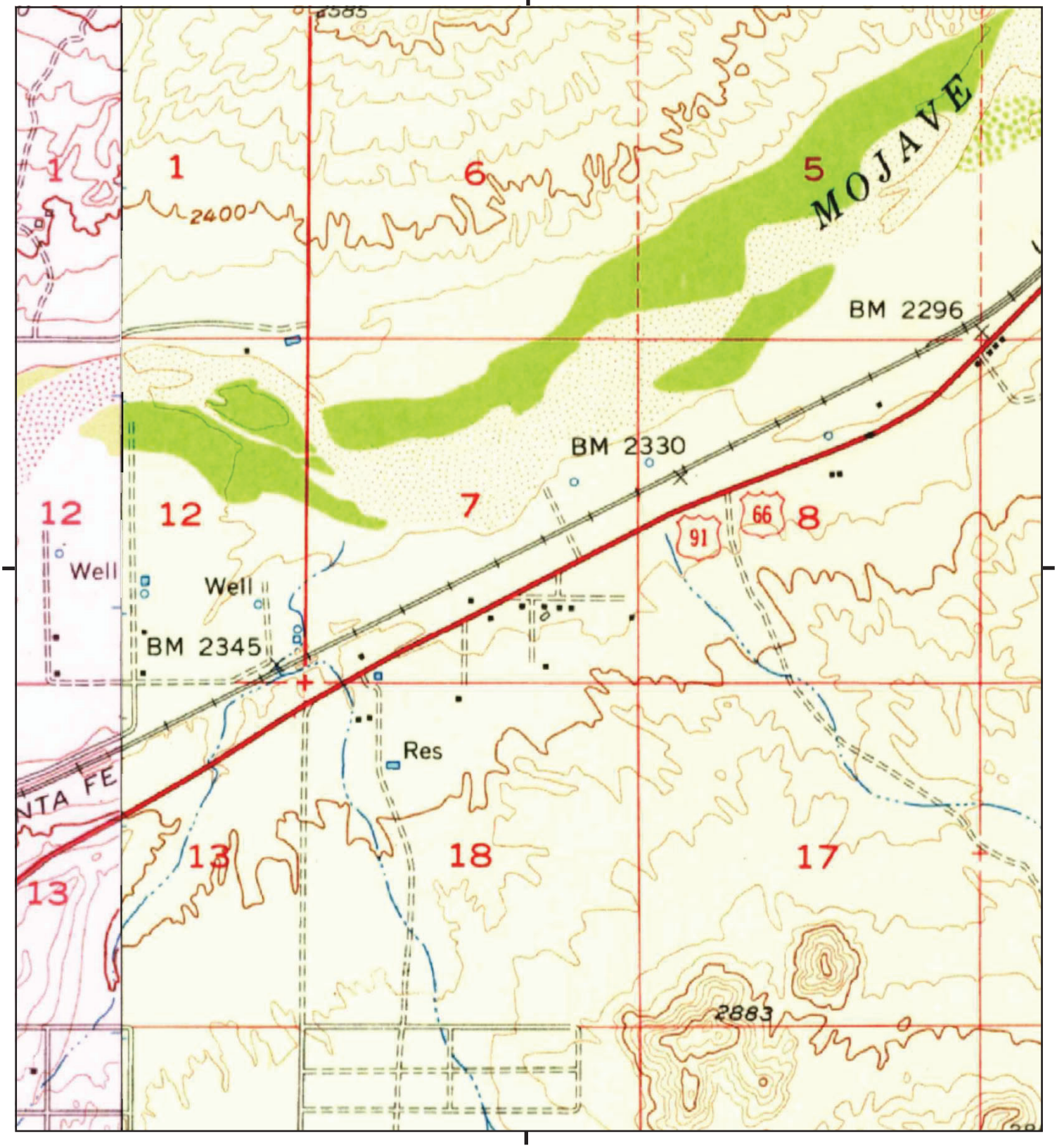
TP, Hodge, 1971, 7.5-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

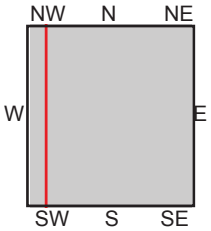
Historical Topo Map

1956



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



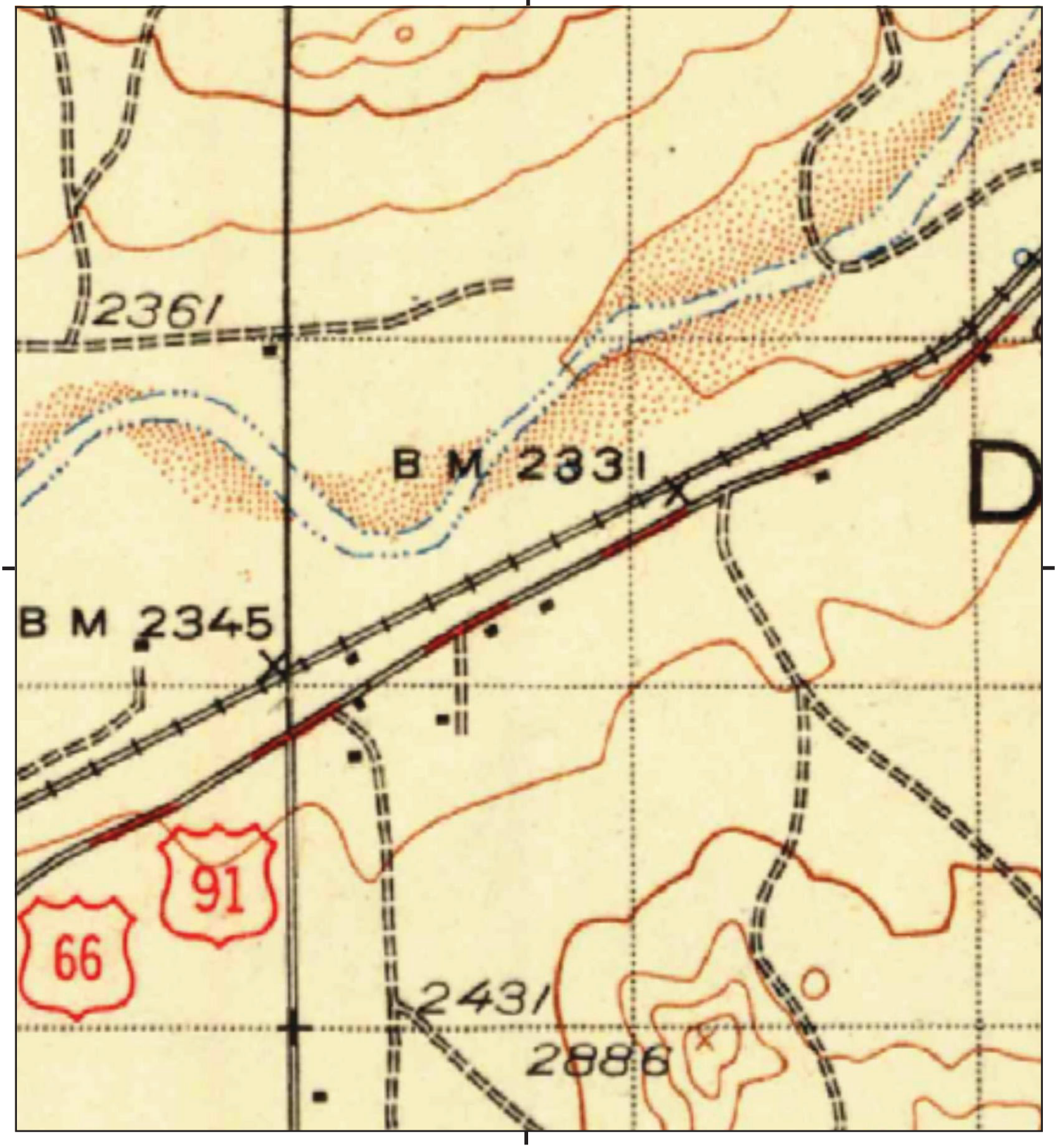
TP, Barstow, 1956, 15-minute
NW, Hawes, 1956, 15-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1934



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

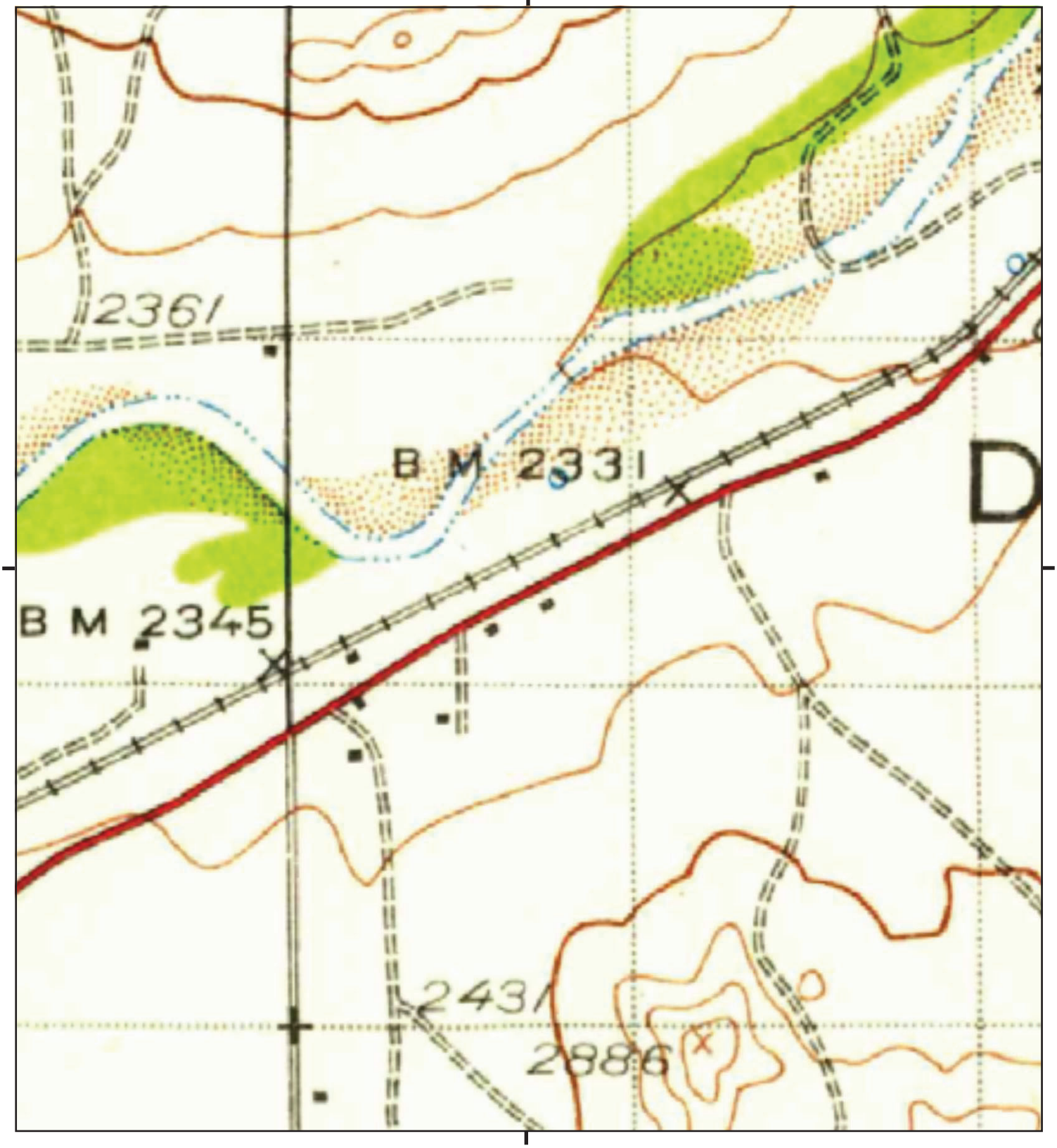
TP, Barstow, 1934, 30-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

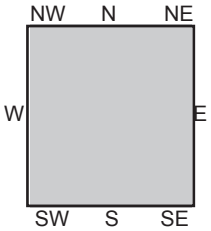
Historical Topo Map

1932



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Barstow, 1932, 30-minute

SITE NAME: Landau Property
ADDRESS: Not Reported
Barstow, CA 92311
CLIENT: TRC Environmental Consultants

N

Landau Property
Not Reported
Barstow, CA 92311

Inquiry Number: 7970533.5
April 30, 2025

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☐	EDR Digital Archive
2017	☑	☐	Cole Information
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
2000	☑	☐	Cole Information
1995	☑	☐	Cole Information
1992	☑	☐	Cole Information
1986	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1976	☑	☐	Haines Criss-Cross Directory
1971	☐	☐	Haines Criss-Cross Directory
1964	☑	☐	Luskey Brothers & Co. Publications

FINDINGS

TARGET PROPERTY STREET

Not Reported
Barstow, CA 92311

Year	CD Image	Source	
MAIN ST			
2020	pg A1	EDR Digital Archive	
2017	pg A2	Cole Information	
2014	pg A3	Cole Information	
2010	pg A4	Cole Information	
2005	pg A5	Cole Information	
2000	pg A6	Cole Information	
1995	pg A7	Cole Information	
1992	pg A8	Cole Information	
1986	pg A9	Haines Criss-Cross Directory	
1980	pg A10	Haines Criss-Cross Directory	
1976	pg A11	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source
1964	pg A12	Luskey Brothers & Co. Publications	

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 2020

19702	MARVIN NELSON
19859	HAZEL BARBER
19867	BRUCE FRANZEN
19893	DALE MARTIN
20013	ROBERT WAGGENER
20035	AUSTIN SIBOLE
	NANCY DODDS
20055	MICHELLE SIBOLE

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 2017

19819	MYERS, RAYMOND
19859	BARBER, HAZEL I
19867	FRANZEN, BRUCE A
19893	MARTIN, DALE L
19915	GLASSER, WILLIAM J
19975	GRAY, JOHN H
20013	WAGGENER, ROBERT F
20035	DODDS, NANCY L
20055	SIBOLE, TOM L

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 2014

19819	OCCUPANT UNKNOWN,
19859	BARBER, HAZEL I
19867	FRANZEN, BRUCE A
19893	MARTIN, DALE L
19915	GLASSER, WILLIAM J
19975	GRAY, JOHN H
20013	WAGGENER, ROBERT F
20035	DODDS, NANCY L
20055	SIBOLE, TOM L

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 2010

19819	YOUNG, DOUGLAS K
19855	BALDOVINOS, ERACLIO
19859	OCCUPANT UNKNOWN,
19867	FRANZEN, BRUCE A
19975	GRAY, JOHN H

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 2005

19819	YOUNG, DOUGLAS K
19859	SANDOVAL, MISTY L
19867	HAUSER, LEE
19975	GRAY, JOHN H

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 2000

20682 BRIGGS J D COMMUNICATIONS

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 1995

22225 C & C JANITORIAL SVC

Target Street	Cross Street	Source
✓	-	Cole Information

MAIN ST 1992

19741 MCCOY, JESS

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1986

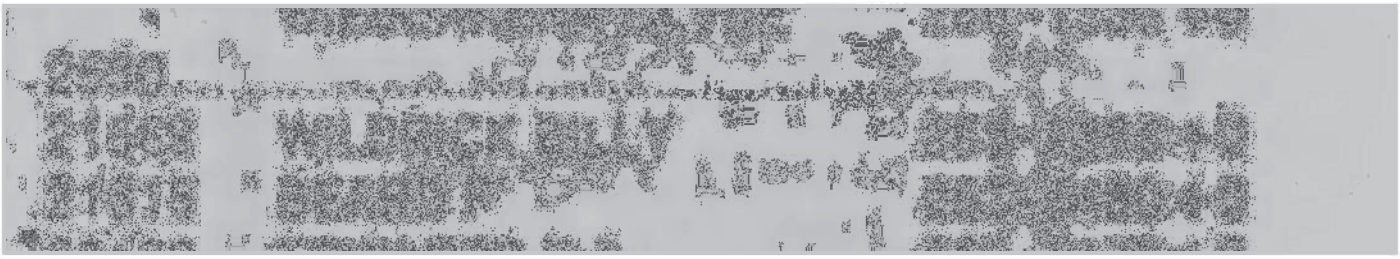
MAIN W 92311 BARSTOW

LEWOOD AREA

21709	WILDRICK BILLY	253-5253	+8
22225	C&C JANITORIAL SERV	253-7322	2
23135	GARRISON HARLO J	253-7593	5
	SMITH RICHARD F	253-5695	+8

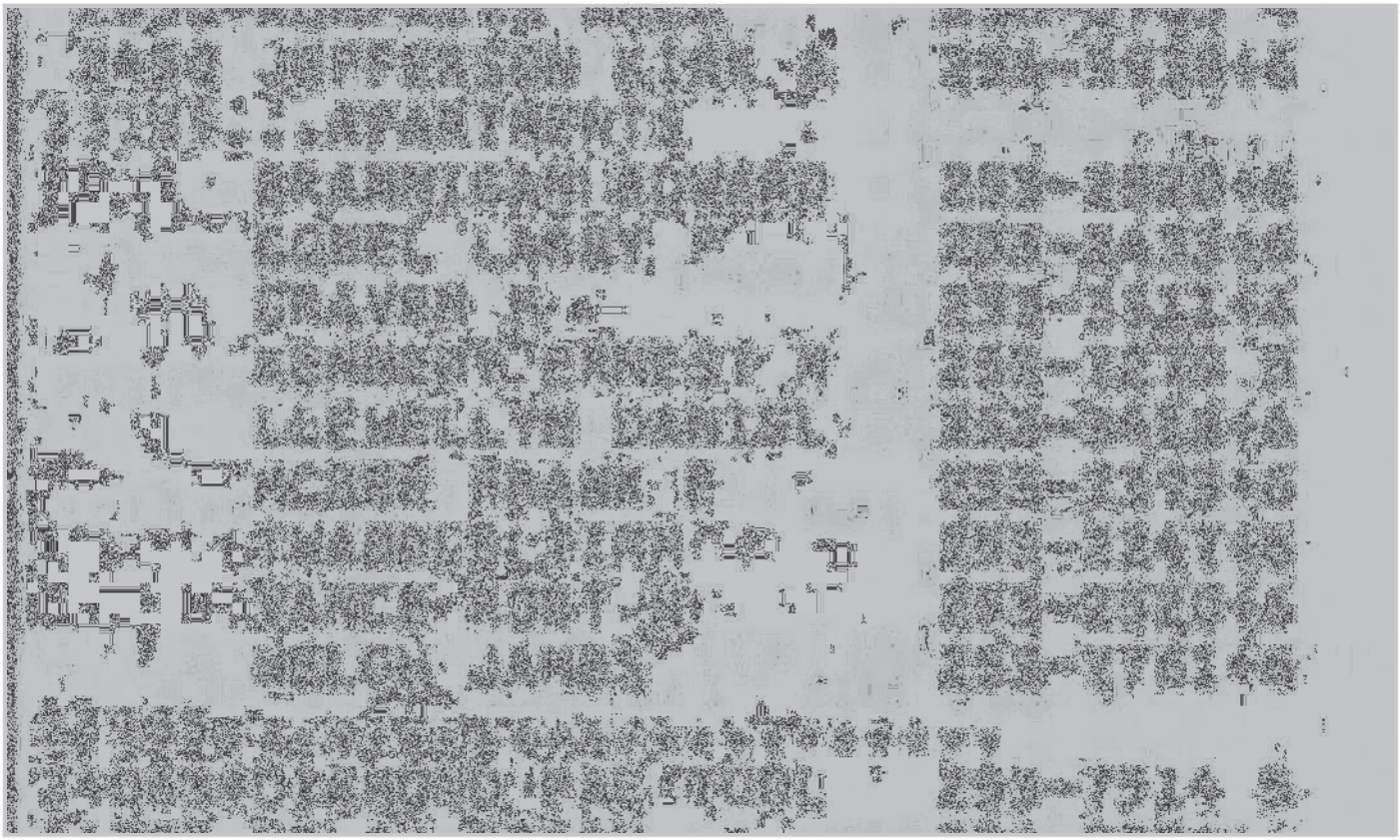
Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1980



Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1976



Target Street	Cross Street	Source
✔	-	Luskey Brothers & Co.

MAIN ST 1964

1600*LE RUSSELL. . . . .CL 6-275
1601 PHELPS AUTO SLS
USED CARS . . . .CL 6-2766
25111 LENWOOD INN/
GROCERY . . . . .CL 6-4931
25111 H LURING . . . . .CL 6-4931
26980 KNUDSEN DAIRY
PRODTS CO . . . .CL 6-2399
26998 W L JAMISON

Landau Property

Not Reported

Barstow, CA 92311

Inquiry Number: 7970533.8

April 25, 2025

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/25/25

Site Name:

Landau Property
Not Reported
Barstow, CA 92311
EDR Inquiry # 7970533.8

Client Name:

TRC Environmental Consultants
17911 VON KARMAN AVE SUITE 400
IRVINE, CA 92614
Contact: Sam Franz

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: May 29, 1994	USGS/DOQQ
1984	1"=500'	Flight Date: October 07, 1984	USDA
1978	1"=500'	Flight Date: July 04, 1978	USGS
1970	1"=500'	Flight Date: May 14, 1970	USGS
1953	1"=500'	Flight Date: January 21, 1953	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

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INQUIRY #: 7970533.8
YEAR: 2020
= 500'
N
EDR

INQUIRY #: 7970533.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 7970533.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 7970533.8
YEAR: 2009
= 500'
N
EDR

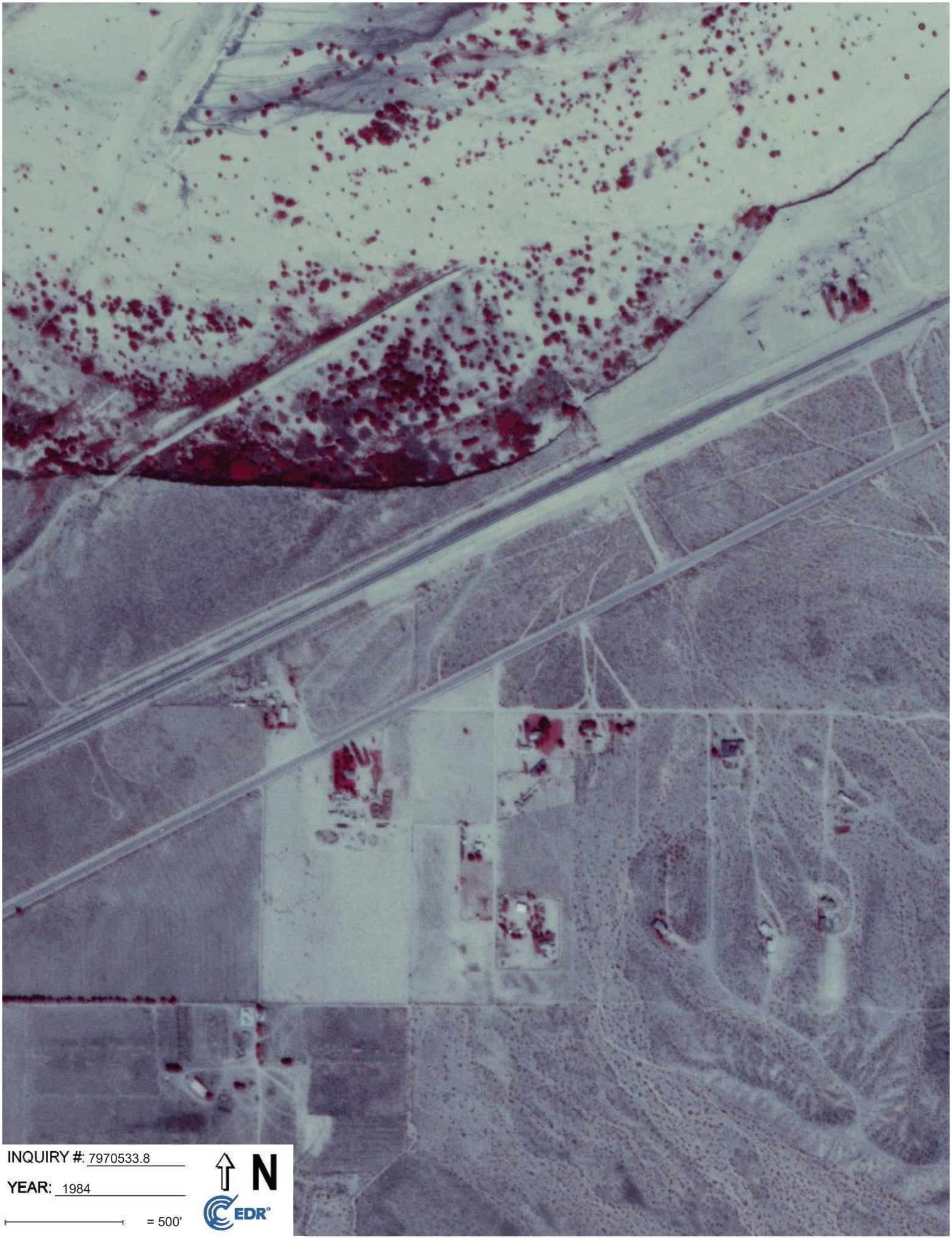
INQUIRY #: 7970533.8
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 7970533.8

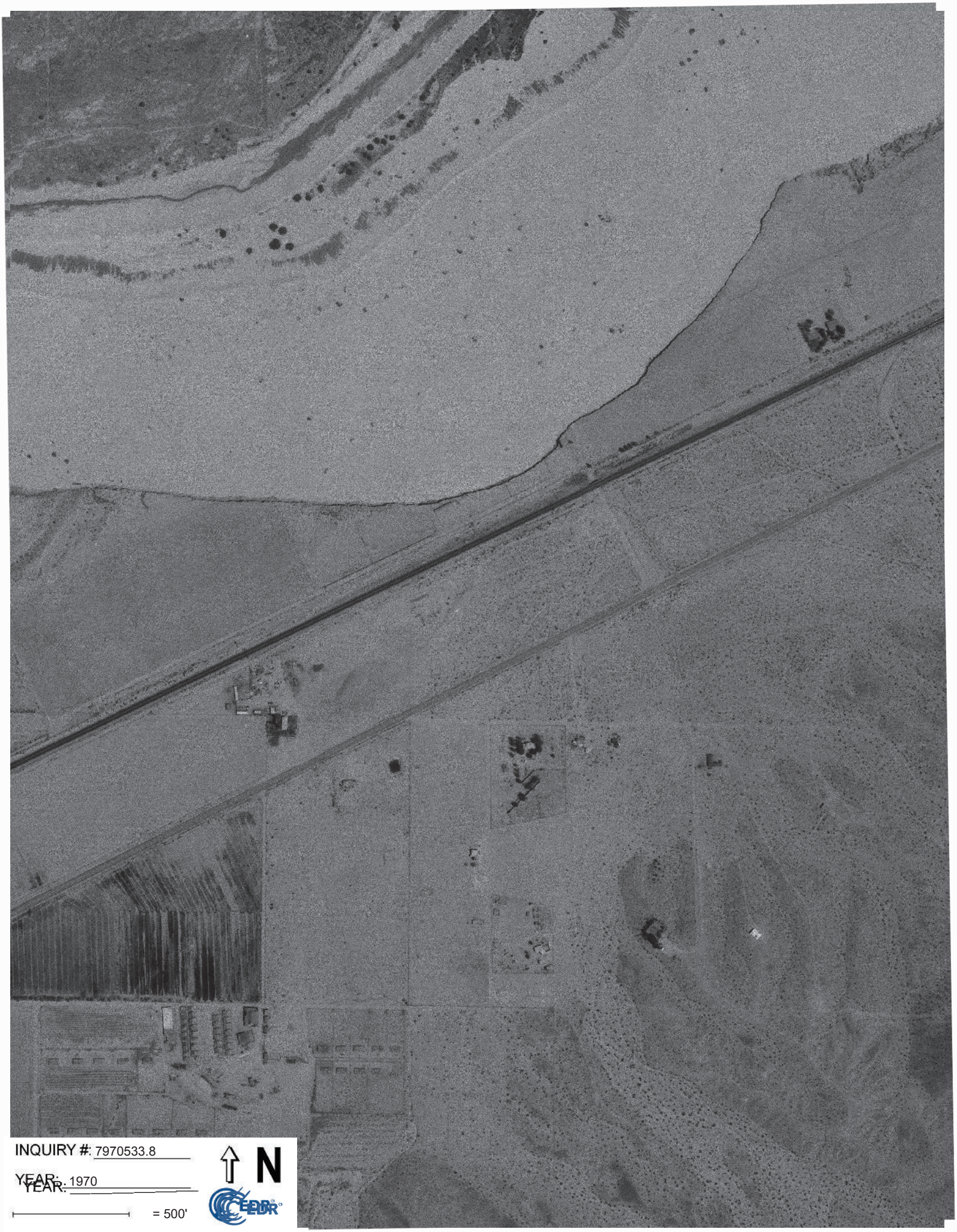
YEAR: 1994

= 500'

N


INQUIRY #: 7970533.8
YEAR: 1984
= 500'
N
EDR

INQUIRY #: 7970533.8
YEAR: 1978
YEAR:
= 500'
N


INQUIRY #: 7970533.8
YEAR: 1970
= 500'
N

INQUIRY #: 7970533.8
YEAR: 1953
= 500'
N
EDR

Appendix C:
Other Reference Information

National Flood Hazard Layer FIRMette

FEMA

117°14'6"W 34°48'N

117°13'29"W 34°47'31"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/1/2024 at 1:35 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

D

PLACE OFFICIAL STAMP AND INITIAL BELOW

THE CITY OF BARSTOW
CROSSROADS OF OPPORTUNITY

B R

OFFICE OF THE CITY CLERK

R R B R RD

D r d D r r d

D M R R RD R D D BR D R

I wish to : (please check)

☐ Review

☐ Obtain copies of the following public records:

I/We, the undersigned, request documents as indicated and agree to pay the City of Barstow for copies at the rate of twenty-five cents per page (ten cents per page for documents requested pursuant to the Political Reform Act) at the time of receipt.

I/We have read the policy on the reverse of this form _____ *(please initial)*

DRAFT

r

M ddr

r r Samuel Franz

r r

R R

Reviewed by City Clerk: ☐ Approved ☐ Denied

Signature

Reason, if denied:

D R Documents/response provided on (date):

By (check one) ☐ Mail ☐ Pick-up ☐ FAX ☐ Email ☐ Delivered ☐ Verbal ☐ Phone

:

D d:	M r:	

Office Hours are 7:30 a.m. to 5:30 p.m. Monday thru Thursday and Fridays 7:30 a.m. to 4:30 p.m.
220 E. Mountain View St., Ste. "A" Barstow, CA 92311 ~ (760) 256-3531/ Fax: (760) 256-1750

The California Public Records Act (Government Code Section 6250 et seq.) provides California citizens with important rights to obtain access to records held by public agencies in the State. In recent years the City of Barstow has experienced a substantial growth in the volume of requests for public records and the staff time required to respond to such requests, particularly with respect to requests for documents relevant to disputes between private parties. The purpose of this policy is to clarify for the public, attorneys, insurance adjusters and private investigators, the process by which the City will respond to requests for records under the Public Records Act.

1. All requests for public records shall be in writing on a form approved by the City Council, unless the request is to review an agenda or agenda reports of the City or a City Commission or committee, the Municipal Code, the General Plan or the Uniform Building Codes, which are available in the City Clerk's Office.

2. The City Clerk will respond to all requests as soon as possible, but not later than the ten-day period, or extensions thereof, as provided by Government Code Section 6253.

    a. The City Clerk shall review the request and determine whether the request seeks identifiable records and, if not, the City Clerk shall assist the person making the request to identify records and information that are responsive to the request or to the purpose of the request, if stated.

    b. The City Clerk shall request all City Departments which may have the records requested to search their files and report back to the City Clerk on whether the Department has the records and, if so, when the records can be made available to the person seeking them.

    c. The City Clerk shall respond to the person requesting records by advising him or her in writing of the availability of the documents, a description of the information technology and physical location in which the records exist, and whether any of the documents are exempt from disclosure under the provisions of the Public Records Act. To the extent feasible, the City Clerk will provide suggestions for overcoming any practical basis for denying access to the records or information sought in compliance with the Public Records Act.

    d. If a request is made for copies of the records, the City Clerk shall also advise the person requesting copies of the estimated costs of copying the records requested.

    e. The person requesting the copies shall pay the per page charge for copying as set forth by resolution of the City Council for all copies requested. The City Clerk shall not make the requested copies until a deposit in the amount of the estimated costs of copying is received and shall not release the copies until the full cost of copying is paid to the City.

3. In accordance with the Public Records Act, the City will provide only specific identifiable records but will not research City records for particular types of information or analyze information, which may be contained within public records.

4. The City will respond to requests for public records in accordance with the terms of the California Public Records Act as the Act now exists or may hereafter be amended, and nothing in this Policy is intended nor shall it be construed to conflict with the terms of the Public Records Act.

Outlook

[EXTERNAL] City Public Records Request :: R000188-042825

From Barstow CA Records <barstowca@govqa.us>
Date Tue 5/27/2025 1:47 PM
To sfranz@trccompanies.com <sfranz@trccompanies.com>

This is an **External** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

ALWAYS hover over the link to preview the actual URL/site and confirm its legitimacy.

--- Please respond above this line ---

RE: City Public Records Request of April 28, 2025, Reference # R000188-042825

Dear Sam Franz,

The City of Barstow received a records request from you on April 28, 2025. Your request mentioned:

> **I would like to review copies if any historical building permits or records pertaining to parcel number:**
>
> **0420-061-34-0000**

The City of Barstow has reviewed its files and has determined there are no responsive record(s) to your request as this parcel is located outside of the city limits of Barstow, CA. Your request can be directed to the County of San Bernardino. Their nearest field office is located at 15900 Smoke Tree St., Hesperia, CA 92345. Their office phone number is (760) 995-8140. This request is now closed.

For questions or additional information, please reply to this email.

Sincerely,

Heidy Riley
Community Development Department

To monitor the progress or update this request please log into the Public Records Center

Powered by GovQA

CUPA
San Bernardino County Fire Protection District • Hazardous Materials Division
620 S. E St., San Bernardino, CA 92415-0153 • (909) 386-8468 FAX (909) 386-8460
hazmatrecords@sbcfire.org

REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT

The main focus of a REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT is to determine whether there exists in San Bernardino County Fire Protection District (SBCFPD) any record relating to contamination or reports of spills at a particular site. An Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report should reveal whether there are any facilities at the site that are subject to current or past regulatory activity by SBCFPD, such as underground storage tanks, hazardous material handlers, hazardous waste generators, and CalARP facilities, as well as any reports of spills, incidents, complaints, or cleanup activity, which can be a useful tool in providing a history of compliance or non-compliance.

Once SBCFPD has completed its records search, an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report will be prepared and issued. Such report will detail all SBCFPD records associated with a particular site by type, date, location, and status (where applicable). All files identified in an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report can be made available for copies and/or review upon request.

If the completed records search reveals no SBCFPD record of hazardous material activity at the site, an Environmental Phase 1 Certified Hazardous Materials Records Search Finding Report will be issued, noting that "no records" were identified.

Please provide a specific site address or location description. If a situs address does not exist or cannot be found, list another type of location identifier such as Assessor Parcel Number (preferable), cross streets or intersections (e.g., NWC 5th Ave. & Main St.), and/or legal description. If possible, please attach a map to this request form.

SITE INFORMATION		
Property Owner or Business Name	Location (Site Address and/or Assessor Parcel No.)	City/Community
Landau	0420-16-134-0000	Barstow

Please provide your name, the company you represent, and contact information below.

REQUESTOR INFORMATION				
NAME	TITLE (*If individual, leave blank*)	COMPANY (*If individual, leave blank*)		
Sam Franz	Staff Geologist	TRC		
MAILING ADDRESS	CITY	STATE	ZIP CODE	
6 Executive Cir. Suite 200	Irvine	CA	92614	
TELEPHONE	FAX	EMAIL ADDRESS		
213-220-4315		sfranz@trccompanies.com		

So that we may provide better service, please check one or more of the boxes below which best describe how the findings of the Env. Audit Phase 1 Certified Hazardous Materials Records Search will be used and/or your relationship to the property in question.

PURPOSE OR RELATIONSHIP TO PROPERTY	
[X] 1. Phase I site assessment or due diligence **AT THE SITE**	[ ] 7. Owner or operator of the facility or property
[X] 2. Environmental professional involved with remediation **AT THE SITE**	[ ] 8. Potential buyer
[ ] 3. Phase I site assessment or due diligence **NEARBY**	[ ] 9. Real Estate Agent, Lender, Appraiser
[ ] 4. Environmental professional involved with remediation **NEARBY**	[ ] 10. Pending escrow
[ ] 5. Proposed School Site (1/4 mi. search for AHM)	[ ] 11. Proposed redevelopment
[ ] 6. Proposed Drinking Water Well	[ ] 12. Legal or other reason: _____

AGENCY USE	
Phase 1 Certified Record Search Finding Report issued: ___/___/___	Reference No:
Phase 1 Certified "No Record" Finding Report issued: ___/___/___	Amount Paid:
	Receipt No.:
	Date:

** IMPORTANT –THIS PAGE MUST BE SIGNED PRIOR TO SUBMITTAL **

DISCLAIMER: While all attempts are made to provide accurate, current, and reliable information, San Bernardino County Fire Protection District *(further referred to as SBDFPD)* recognizes the possibility of human error. Therefore, SBCFPD, its officers, employees, agents and volunteers, make no representations as to the accuracy, completeness or suitability of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report and provides an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report "as is," with no warranties, express or implied, including the implied warranty of fitness for a particular purpose. In no event shall SBCFPD be liable for any damages of any nature whatsoever, arising out of the issuance of a Certified Hazardous Materials Records Search Finding Report. SBCFPD therefore assumes no liability for damages incurred directly or indirectly as a result of any errors, omissions or discrepancies in a Certified Hazardous Materials Records Search Finding Report.

RELEASE AND INDEMNIFICATION: In consideration for the issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, I hereby release and forever discharge SBCFPD, its officers, employees, agents and volunteers from any and all claims, actions, losses, damages and/or liability in connection with SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, including, but not limited to, claims that may arise due to the active or passive negligence of SBCFPD, its officers, employees, agents and volunteers.

I am familiar with the provisions of California Civil Code Section 1542, which provides as follows:

"A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

I hereby expressly waive any and all rights that I may have there under. I understand and acknowledge the significance and consequence of this specific waiver of California Civil Code Section 1542 and assume full responsibility for any injuries, damages, losses or liabilities that I may hereafter discover as possibly resulting from SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report.

In further consideration for SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report, I hereby agree, for myself, my heirs, administrators, executors and assigns, that I shall indemnify, defend (with counsel approved by County) and hold harmless SBCFPD, its officers, employees, agents and volunteers from any and all claims, demands, actions or suits arising out of or in connection with SBCFPD's issuance of an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report brought by any third party.

I have read the above terms and conditions, including the paragraphs entitled "DISCLAIMER" and "RELEASE AND INDEMNIFICATION", and by my signature below, I affirm that I understand these terms and conditions and accept them as part of my REQUEST FOR AN ENVIRONMENTAL AUDIT PHASE 1 CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT.

I hereby request an Environmental Audit Phase 1 Certified Hazardous Materials Records Search Finding Report for the location described on Page 1 of this application.

- ❑ **I am including payment of the initial fee of $136.00, for the first hour of research, by check or money order, payable to San Bernardino County Fire Protection District, or by credit card payment taken over the phone. I understand that research exceeding one hour will be billed at the rate of $136.00 for each additional hour spent by SBCFPD in completing this request.**
- ❑ **I have faxed or emailed this request and will forward payment along with the original request form within 48 hours.**

REQUESTOR'S SIGNATURE	
SIGNATURE OF REQUESTOR	DATE 04/25/2025

Rev. 05/06/2020

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

598 S. Tippecanoe Ave ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Section
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Monica S. Ronchetti
Fire Marshal

April 28, 2025

25042506 Barstow NRL TRC

TRC COMPANIES
6 EXECUTIVE CIRCLE, SUITE 200
IRVINE, CA 92614

ATTENTION: **SAM FRANZ**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
APN #: 0420-161-34-0000
BARSTOW, CALIFORNIA

This is to confirm that the OFM Hazardous Materials Section (HMS) has searched its records for any file(s) pertaining to the subject property, as described in your request, and finds that no records exist for the above site description(s).

Records maintained by OFM-HMS date back to mid-1980's. Records searched include:

- Facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions
- Logs of permits issued for the removal, installation, and/or modification of underground storage tanks
- Records and databases pertaining to illicit dumping, spill reports, release notifications, and complaints
- Incidents responded to by the hazardous materials emergency response team
- Sites undergoing remediation for contaminated soil and/or groundwater

Christina Rivera

Christina Rivera
Office Specialist
Office of the Fire Marshal
Hazardous Materials Section

BOARD OF DIRECTORS

Col. Paul Cook (Ret.)	Jesse Armendarez	Dawn Rowe	Curt Hagman	Joe Baca, Jr.	Luther Snoke
First District	Second District	Chairman, Third District	Fourth District	Vice Chair, Fifth District	Chief Executive Officer

Outlook

TRC Records Request- Landau

From Franz, Samuel <SFranz@trccompanies.com>
Date Fri 4/25/2025 3:25 PM
To cypressfileroom@dtsc.ca.gov <cypressfileroom@dtsc.ca.gov>; ChatsworthFileRoom@DTSC <ChatsworthFileRoom@dtsc.ca.gov>
Cc Maldonado, Jose <JMaldonado@trccompanies.com>; Cottingham, Joshua <JCottingham@trccompanies.com>

To Whom It May Concern:

I am writing to submit an Open Records Request for information regarding the properties identified in the table below.

Parcel Number	Address
0420-16-134	Barstow, CA

I am seeking the following information for each parcel:

1. Do you have any records of fuel or chemical storage at the site? If yes, please provide details (install, removal, size, contents, Closure Assessments, etc.).
2. Do you have any records of hazardous waste disposal at the site?
3. Are you aware of any environmental impacts at the site (chemical or petroleum spills, releases, etc.)?
4. Has your agency been called to the site for an environmental emergency?
5. Do you know whether there are any groundwater use restrictions or other environmentally related activity and use restrictions at or near the site?
6. Do you know the past use of the site?
7. When were the current structures constructed? What is their approximate square-footage?
8. What is the current zoning of the site? What is the past zoning of the site?

Please contact me via email at sfranz@trccompanies if charges will be incurred prior to fulfilling this request. Thank you for your assistance.

Sincerely,

Sam Franz 6 Executive Circle, Suite 200

Staff Geologist Irvine, CA 92614

TRCCOMPANIES.COM

C 562.972.9016

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Katherine M. Butler, MPH, Director
9211 Oakdale Avenue
Chatsworth, California 91311
https://dtsc.ca.gov/

Gavin Newsom
Governor

April 29, 2025

Samuel Franz

TRC Companies

SFranz@trccompanies.com

Public Records Request Number: PR3-042525-08

Location: **No available street address for a vacant parcel on the north side of Main St. It's directly across from 19855 Main St., Barstow, CA 92311, on the south side.**

APN: **0420-16-134**

Dear Mr. Franz:

On April 25, 2025, the Department of Toxic Substances Control (DTSC) received your email of the same date requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the parcel referenced above.

Many of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSC's data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 818-717-6521 or via email at ChatsworthFileRoom@dtsc.ca.gov.

Sincerely,

Robert Hardison

Robert Hardison
Records Mgmt. Asst. Coordinator

Request 25-11061

Closed

Dates

Received

April 25, 2025 via web

Requester

Sam Franz

sfranz@trccompanies.com

5629729016

TRC

Staff assigned

Departments

Environmental Health Services

Point of contact

Mayra Barcenas

Request

Hello,

I would like to confi rm any wells, septic systems, or permitrecords for any of the parcels and addresses comprising thefollowing property listed below.

Landau Property

Primary Address: Barstow, CA

APN: 0420-161-34-0000 (insert APN)

Thank you!

Timeline | Documents

Request closed

Anyone with access to this request

Hello,

San Bernardino County Environmental Health Services **does not** have records for this request.

This request has been fulfilled. Please let us know if you have questions.

Thank you

Raul Robles

Lead OA

April 25, 2025, 4:46pm by Staff

Requester + Staff

0 0.2 0.4 mi

0 0.25 0.5 km

Powered by

4/29/2025

Well Status & Type

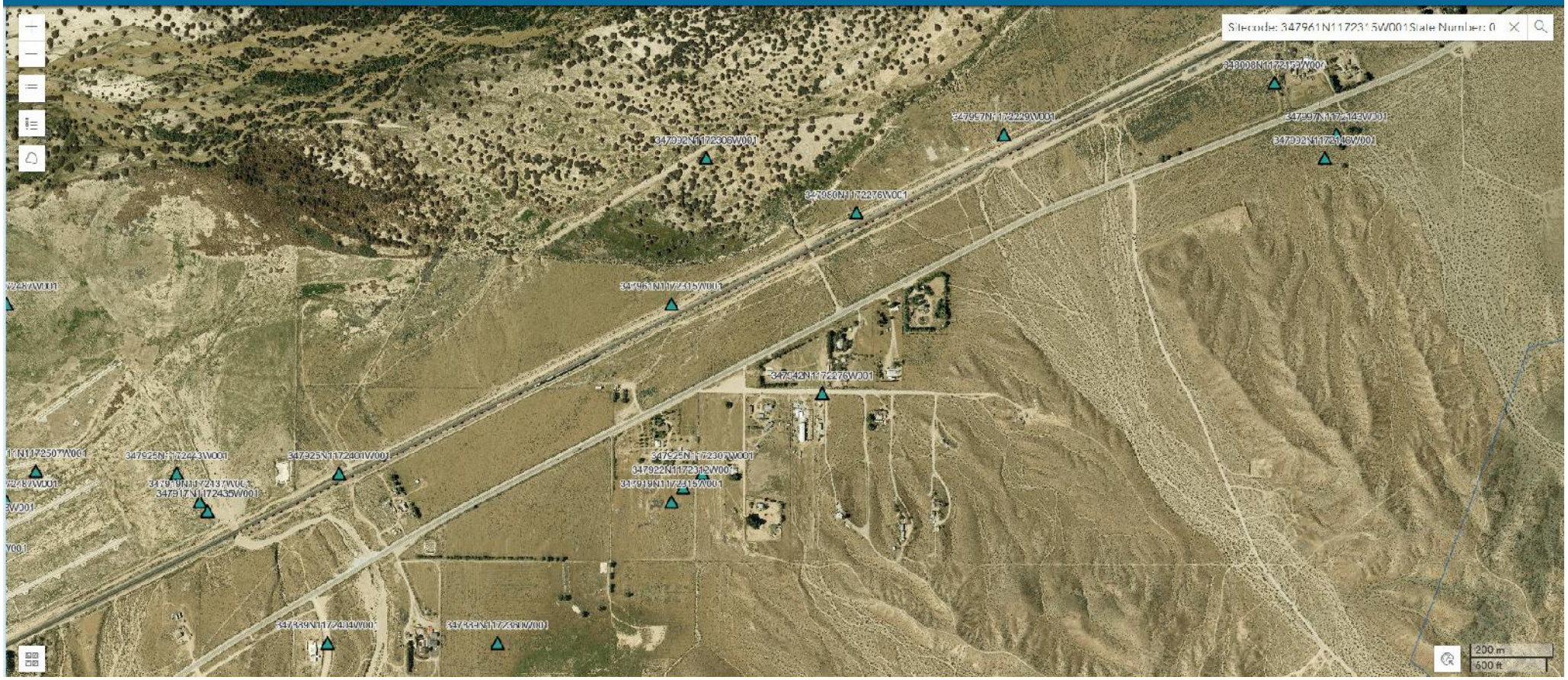
Geologic Energy Management Division
715 P Street, MS 1803
Sacramento, CA 95814
Phone: (916) 445-9686
Email: calgem_webmaster@conservation.ca.gov
www.conservation.ca.gov/calgem

California Natural Resources Agency
Department of Conservation

CALIFORNIA DEPARTMENT OF WATER RESOURCES CASGEM

Sign In

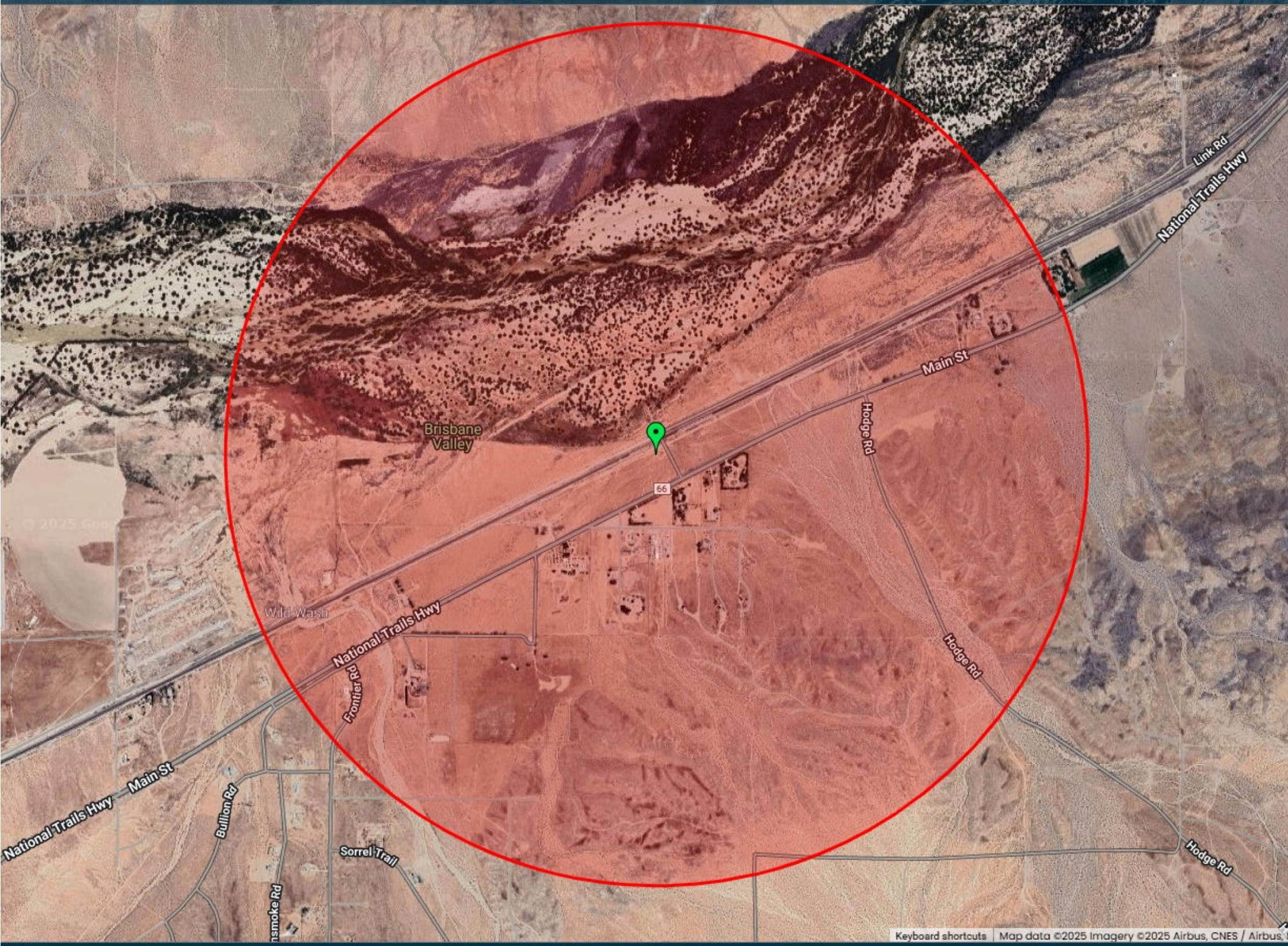
Home Wells Notifications Reports About



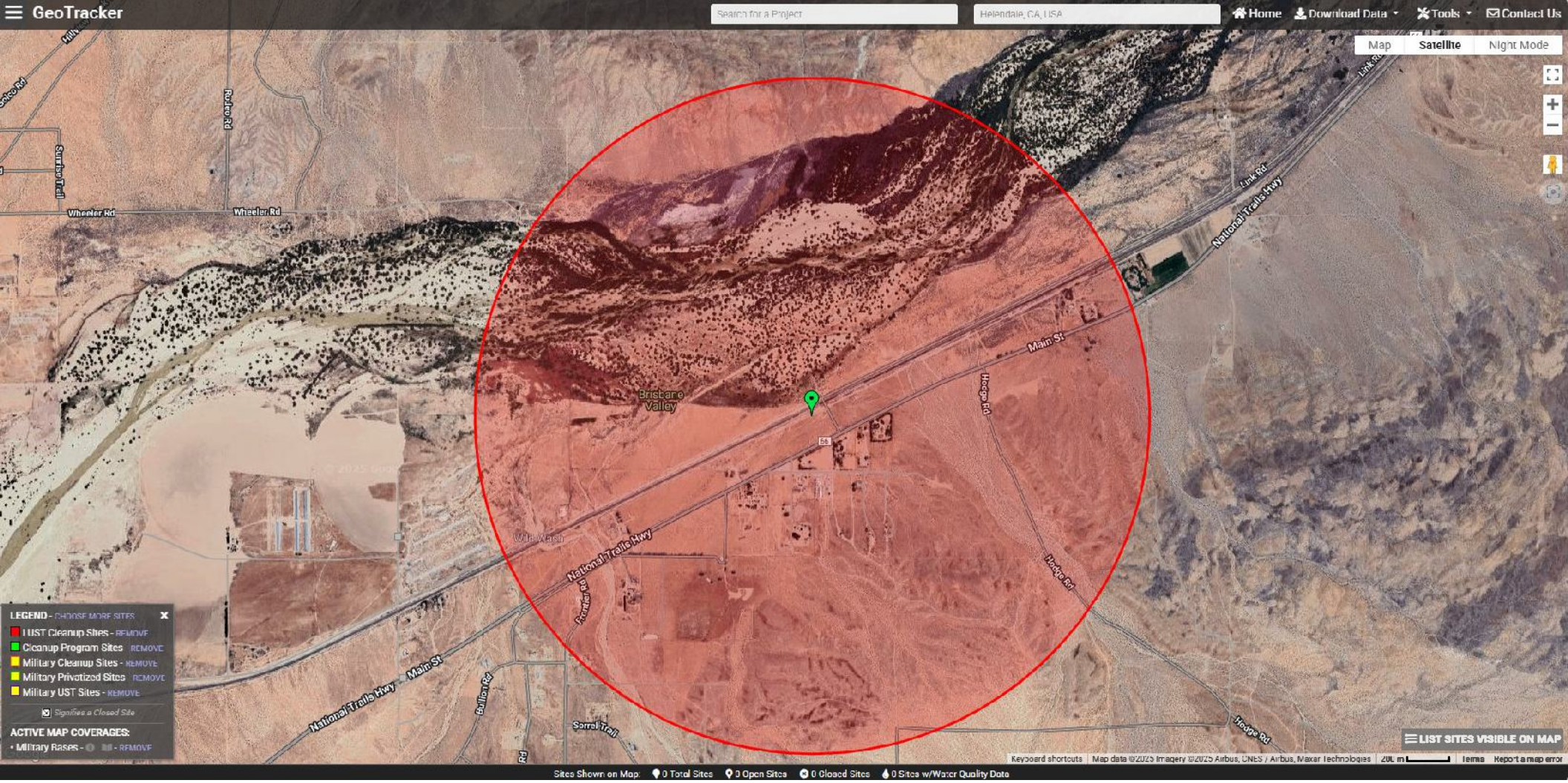
Search for a Project

Helendale, CA, USA

Home



Sites Shown on Map: 1 Total Sites


GeoTracker
Search for a Project
Helendale, CA, USA
Home
Download Data
Tools
Contact Us
Map
Satellite
Night Mode
Wheeler Rd
Sunset Trail
Brisbane Valley
Main St
Link Rd
National Trails Hwy
Hodge Rd
Frontier Rd
Bullion Rd
Sorrel Trail
Wild Wash
LEGEND - CHOOSE MORE SITES
LUST Cleanup Sites - REMOVE
Cleanup Program Sites REMOVE
Military Cleanup Sites - REMOVE
Military Privatized Sites REMOVE
Military UST Sites - REMOVE
Signifies a Closed Site
ACTIVE MAP COVERAGES:
• Military Bases - REMOVE
LIST SITES VISIBLE ON MAP
Keyboard shortcuts
Map data ©2025 Imagery ©2025 Airbus, CNES / Airbus, Maxar Technologies
200 m
Terms
Report a map error
Sites Shown on Map: 0 Total Sites 0 Open Sites 0 Closed Sites 0 Sites w/Water Quality Data

Look Up Property Information

Enter information below to look up property information.

- Address
- Parcel Information
- Record Information

Use the drop-down list to change the search type.

Look Up by Parcel Information

Parcel Number:

Lot:

Look Up | Clear

1 results found matching lookup criteria

Click on all the results below to view more details.

Showing 1-1 of 1 | Download results

	Parcel Number	Lot	Block	Subdivision	Action
☐	0420161340000				Retrieve Address & Owner Info

Associated Addresses of Parcel 0420161340000

Show on Map | Cancel

Showing 1-1 of 1 | Download results

Associated Owners of Parcel 0420161340000

Showing 1-1 of 1 | Download results

Name	Address
LANDAU, STEPHEN J - EST OF	632 N POINSETTIA PL LOS ANGELES CA 90036 3420161340000000 LOS ANGELES CA 90036

Property Information Management System

San Bernardino County

Office of the Assessor

PIMS PACKAGE REPORT FOR PARCEL 0420-161-34-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address LANDAU, STEPHEN J - EST OF
C/O SUZANNE J GRAEBER
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 07/30/2024

Parcel 0420161340000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 7.001 TO 14.000 ACRES
Land Type SINGLE FAMILY RESIDENTIAL
District HESPERIA
Resp Group REAL PROPERTY
Resp Unit RES ZONE(MAX 14 UTS)&USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name LANDAU, STEPHEN J - EST OF
R/I SOLE OWNER
% Int 100.0000000
Type BILLED OWNER
Acquisition Date 04/14/2023
Document Date 04/14/2023
Inactive Date NONE

Document Numbers
2023041400019

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0420161340000			

Legal Description

PTN N 1/2 S 1/2 AND PTN NE 1/4 SEC 7 TP 8N R 3W LYING SLY OF A T AND S F RR R/W AND LYING NLY OF U S HGWY 66 EX ELY 15 AC THEREOF AND EX COM AT PT IN S LI SD N 1/2 S 1/2 AT ITS INTERSECTION WITH SELY LI SD RR R/W TH E ALG SD S LI N 1/2 S 1/2 TO NWLY LI U S HGWY 66 TH N PARALLEL WITH E LI SD SEC TO SELY LI SD RR R/W TH SWLY ALG SD SELY LI TO POB 10 AC M/L

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Prior Roll History

Year: 2024

TRA	56095	**Land Value**	15,300
Supplement	NO	**Improvement Value**	0
Correction Date	08/27/2024	**Improvement Penalty**	0
Correction Code	570I	**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J - EST OF	**Total Penalties**	0
Joint Owner		**Total Value**	15,300
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**15,300**

Year: 2023

TRA	56095	**Land Value**	12,390
Supplement	YES	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	12,390
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**12,390**

Year: 2022

TRA	56095	**Land Value**	12,147
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	12,147
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**12,147**

Year: 2021

TRA	56095	**Land Value**	11,909
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	11,909
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**11,909**

Year: 2020

TRA	56095	**Land Value**	11,787
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	11,787
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**11,787**

Year: 2019

TRA	56095	**Land Value**	11,556
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	11,556
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**11,556**

Year: 2018

TRA	56095	**Land Value**	11,329
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	11,329
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**11,329**

Year: 2017

TRA	56095	**Land Value**	11,107
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	11,107
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**11,107**

Year: 2016

TRA	56095	**Land Value**	10,889
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,889
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,889**

Year: 2015

TRA	56095	**Land Value**	10,725
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,725
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,725**

Year: 2014

TRA	56095	**Land Value**	10,515
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,515
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,515**

Year: 2013

TRA	56095	**Land Value**	10,467
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,467
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,467**

Year: 2012

TRA	56095	**Land Value**	10,262
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,262
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,262**

Year: 2011

TRA	56095	**Land Value**	10,061
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,061
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,061**

Year: 2010

TRA	56095	**Land Value**	9,986
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	9,986
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,986**

Year: 2009

TRA	56095	**Land Value**	10,010
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	10,010
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**10,010**

Year: 2008

TRA	56095	**Land Value**	9,814
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	9,814
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,814**

Year: 2007

TRA	56095	**Land Value**	9,622
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	9,622
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,622**

Year: 2006

TRA	56095	**Land Value**	9,433
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	9,433
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,433**

Year: 2005

TRA	56095	**Land Value**	9,248
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	9,248
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,248**

Year: 2004

TRA	56095	**Land Value**	9,067
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	9,067
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,067**

Year: 2003

TRA	56095	**Land Value**	8,901
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	8,901
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,901**

Year: 2002

TRA	56095	**Land Value**	8,726
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	8,726
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,726**

Year: 2001

TRA	56095	**Land Value**	8,555
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	8,555
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,555**

Year: 2000

TRA	56095	**Land Value**	8,387
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	8,387
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,387**

Year: 1999

TRA	56095	**Land Value**	8,223
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	8,223
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,223**

Year: 1998

TRA	56095	**Land Value**	8,074
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	8,074
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,074**

Year: 1997

TRA	56095	**Land Value**	7,916
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,916
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,916**

Year: 1996

TRA	56095	**Land Value**	7,761
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,761
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,761**

Year: 1995

TRA	56095	**Land Value**	7,675
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,675
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,675**

Year: 1994

TRA	56095	**Land Value**	7,584
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,584
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,584**

Year: 1993

TRA	56095	**Land Value**	7,435
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,435
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,435**

Year: 1992

TRA	56095	**Land Value**	7,289
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,289
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,289**

Year: 1991

TRA	56095	**Land Value**	7,146
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,146
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,146**

Year: 1990

TRA	56095	**Land Value**	7,006
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	7,006
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**7,006**

Year: 1989

TRA	56095	**Land Value**	6,869
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	6,869
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**6,869**

Year: 1988

TRA	56095	**Land Value**	6,734
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	6,734
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**6,734**

Year: 1987

TRA	56095	**Land Value**	6,602
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	6,602
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**6,602**

Year: 1986

TRA	56095	**Land Value**	6,473
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	6,473
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**6,473**

Year: 1985

TRA	56095	**Land Value**	6,346
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	6,346
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**6,346**

Year: 1984

TRA	56095	**Land Value**	6,222
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	LANDAU, STEPHEN J	**Total Penalties**	0
Joint Owner		**Total Value**	6,222
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**6,222**

Year: 1983

TRA	56095	**Land Value**	15,000
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	15,000
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**15,000**

Year: 1982

TRA	56095	**Land Value**	3,427
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner	FEDERATED LAND RESEARCH INC	**Total Penalties**	0
Joint Owner		**Total Value**	3,427
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**3,427**

Year: 1981

TRA	0	**Land Value**	3,360
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	3,360
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**3,360**

Year: 1980

TRA	0	**Land Value**	825
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	825
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**825**

Year: 1979

TRA	0	**Land Value**	810
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	810
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**810**

Year: 1978

TRA	0	**Land Value**	795
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	795
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**795**

Year: 1976

TRA	0	**Land Value**	750
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0420161340000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	750
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**750**

Parcel History

		Multi Parcel List
Event Date	04/14/2023	0311063220000 TOT-DOD 0326221270000 TOT-DOD 0338094500000 TOT-DOD 0343162470000 TOT-DOD 0420161340000 TOT-DOD 0516221010000 TOT-DOD 0531051100000 TOT-DOD 0611061470000 TOT-DOD 2350433360000 TOT-DOD
Event Group/Type	TRANSFER - 100% PER DATE OF DEATH	
Multi Parcel	Yes	

		Multi Parcel List
Event Date	03/16/1983	
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

		Multi Parcel List
Event Date	01/27/1983	
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

		Multi Parcel List
Event Date	09/01/1982	
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

		Multi Parcel List
Event Date	02/28/1973	
Event Group/Type	CREATE - WORKED IN OLD SYSTEM (NONREPAR)	
Multi Parcel	No	

Ownership History

Owner Name: LANDAU, STEPHEN J - EST OF

		Document Numbers
R/I	SOLE OWNER	2023041400019
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	04/14/2023	
Document Date	04/14/2023	
Inactive Date	NONE	

Owner Name: LANDAU, STEPHEN J

		Document Numbers
R/I	SOLE OWNER	8305541800000
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	NONE	
Document Date	03/16/1983	
Inactive Date	04/13/2023	

Owner Name: LOMA LINDA UNIVERSITY

		Document Numbers
R/I	SOLE OWNER	8301825400000
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	NONE	
Document Date	01/27/1983	
Inactive Date	03/15/1983	

Owner Name: STATE OF CALIFORNIA TC

		Document Numbers
R/I	SOLE OWNER	8217417700000
% Int	100.0000000	
Type	OTHER OWNER	
Acquisition Date	NONE	
Document Date	09/01/1982	
Inactive Date	01/26/1983	

Owner Name: FEDERATED LAND RESEARCH INC

R/I	SOLE OWNER
% Int	0.0000000
Type	BILLED OWNER
Acquisition Date	NONE
Document Date	NONE
Inactive Date	01/26/1983

Document Numbers

Supplement History

Supplement Date: 04/14/2023

Roll Type	INTERIM SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2023	**New Land**	15,000
Revised IND		**New Imprv**	0
Corrected Date		**Old Land**	12,147
Correction Code		**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	56095	**Old HOX**	0
NOPIC Date	08/23/2024	**Supp HOX**	0
Extract Date	01/03/2025	**Special Exem**	0
Months Prorated	2	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	0420161340000	**Construction in Progress**	0
		Net Value	**2,853**
Billed Owner	LANDAU, STEPHEN J - EST OF		
Joint Owner			

Supplement Date: 04/14/2023

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2023	**New Land**	15,000
Revised IND		**New Imprv**	0
Corrected Date		**Old Land**	12,390
Correction Code		**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	56095	**Old HOX**	0
NOPIC Date	08/23/2024	**Supp HOX**	0
Extract Date	01/03/2025	**Special Exem**	0
Months Prorated	12	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	0420161340000	**Construction in Progress**	0
		Net Value	**2,610**
Billed Owner	LANDAU, STEPHEN J - EST OF		
Joint Owner			

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Fractional Sec. 7, T. 8N, R. 3W., S.B.B.&M.

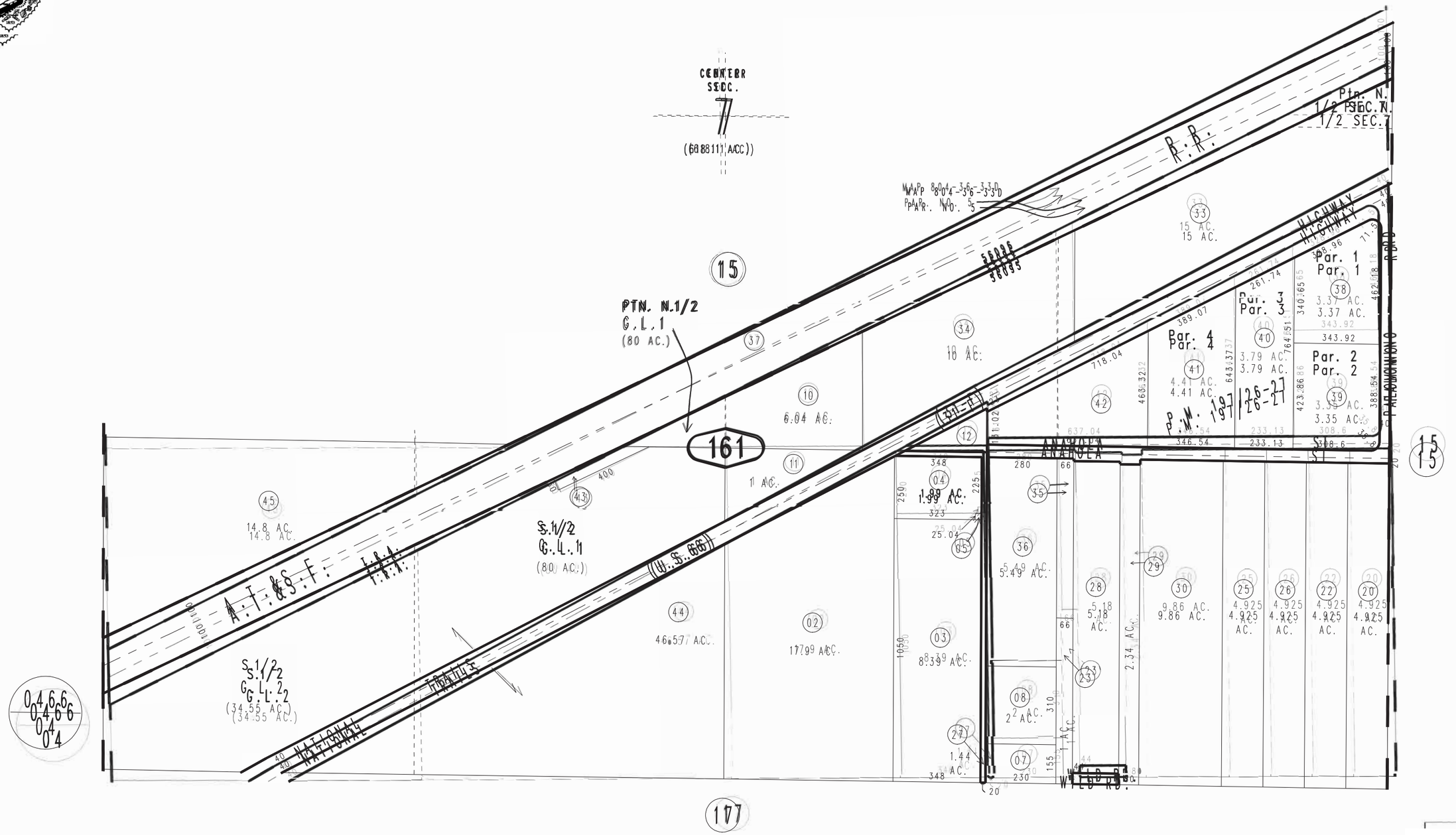
Barstow Unified
Tax Rate Area
56095 56096

Barstow Unified
Tax Rate Area
56095 56096

0420-16

0420-16

1" = 400'



REVISED
03/15/23 XM
09/15/23 KC
03/12/24 KC
04/25/24 KC-MC

February 2004

February 2004

Parcel Map No. 14663, P.M. 197/26-27

Parcel Map No. 14663, P.M. 197/26-27

Assessor's Map
Book 0420 Page 16
San Bernardino County

Assessor's Map
Book 0420 Page 16
San Bernardino County

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

Pursuant to the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13), in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

The "User" is defined in the ASTM E 1527-13 standard as *the party seeking to use Practice E 1527 to complete an environmental site assessment of the Site. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager*.

Thank you for taking the time to complete this questionnaire. If you have any questions, please call Jose Maldonado at 949.754.5611 or e-mail jmaldonado@trccompanies.com.

Date: 06/04/2025

Company: BNSF Jobi Cherian

Address: BNSF Railway, Fort Worth TX 76131

Telephone No.: 817-352-2939

E-mail Address: Jobi.Cherian@BNSF.com

Signature: _____

Site Name & Address:
Landau, Stephen J. Property, Barstow, CA 92311 / APN(s): 0420-161-34

Purpose of ASTM Phase I (potential purchase, potential sale, re-finance, update the environmental condition of the Site, Lease termination or initiation, etc.)

(1.) **Environmental cleanup liens that are filed or recorded against the Site (40 CFR 312.25)**
Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the Site under federal, tribal, state or local law?

Yes ☐ **No** ☐

NOTE 1 — In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

(2.) **Activity and land use limitations (AULs) that are in place on the Site or that have been filed or recorded against the Site (40 CFR 312.26(a)(1)(v) and (vi))**

Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded against the Site under federal, tribal, state or local law?

Yes ☐ **No** ☐

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

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

Yes ☐ **No** ☐

(4.) **Relationship of the purchase price to the fair market value of the Site property (40 CFR 312.29)**

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

Yes ☐ **No** ☐

(5.) ***Commonly known* or *reasonably ascertainable* information regarding the Site property (40 CFR 312.30)**

Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,

(a.) Can you provide any information regarding the past uses of the Site?

(b.) Can you provide any information regarding specific chemicals that are present or once were present at the Site?

(c.) Can you provide any information regarding spills or other chemical releases that have occurred at the Site?

(d.) Can you provide any information regarding any environmental cleanups that have occurred at the Site?

Yes ☐ **No** ☐

(6.) **The degree of obviousness of the presence or likely presence of contamination at the Site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**
Based on your knowledge and experience related to the Site are there any obvious indicators that point to the presence or likely presence of releases at the Site?

Yes	No
☐	☐

(7.) **Proceedings Involving the Site**
Are you aware of**:** (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Site?

Yes	No
☐	☐

(8.) **Questions Regarding Helpful Documents**
Are you aware of the presence of any of the documents listed below and, if so, whether copies can and will be provided to TRC within reasonable time and cost constraints?

	Yes	No
- Environment site assessment reports	☐	☐
- Environment compliance audit reports	☐	☐
- Environmental permits (e.g., solid waste disposal permits; hazardous waste disposal permits; wastewater permits; National Pollutant Discharge Elimination System [NPDES] permits; or underground injection permits)	☐	☐
- Registrations for underground and aboveground storage tanks	☐	☐
- Registrations for underground injection systems	☐	☐
- Material Safety Data Sheets (MSDSs)	☐	☐
- Community Right-To-Know plan(s)	☐	☐
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,	☐	☐
- Reports regarding hydrogeologic conditions at the Site and surrounding area	☐	☐
- Notices or other correspondence from any government agency regarding current or previous violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site property	☐	☐
- Hazardous waste generator notices or reports	☐	☐
- Geotechnical studies	☐	☐
- Risk assessments	☐	☐
- Recorded AULs.	☐	☐

Appendix D:
Photograph Log

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

Photo 1: South facing view from the southeast corner. Immediately outside the subject property on the ground is a roof of a buried automobile. From geophysical survey, this area is identified as Anomaly 1. The BNSF Right-of-way is located directly to the north.

Photo 2: North facing view from the northern property boundary. The northwest portion of subject property contains a partially-buried 55-gal drum and an automobile gas tank. From geophysical survey, this area is identified as Anomaly 2.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

Photo 3: West facing view from the northern property boundary. The northwest portion of subject property contains a partially-buried 55-gal drum and an automobile gas tank. From geophysical survey, this area is identified as Anomaly 2.

Photo 4: Close up view from the northern property boundary (see Photos 2 and 3). The northwest portion of subject property contains a partially-buried 55-gal drum and an automobile gas tank.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

Photo 5: Close up view from the northern property boundary (see Photo 2). The partially buried gas automobile gas tank, approximately 2.5 feet in length was uncovered during the geophysical survey investigation.

Photo 6: East facing view from the center of property of the illegal dumping area containing tires and a trench. From the geophysical survey, this area is identified as Anomaly 3.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

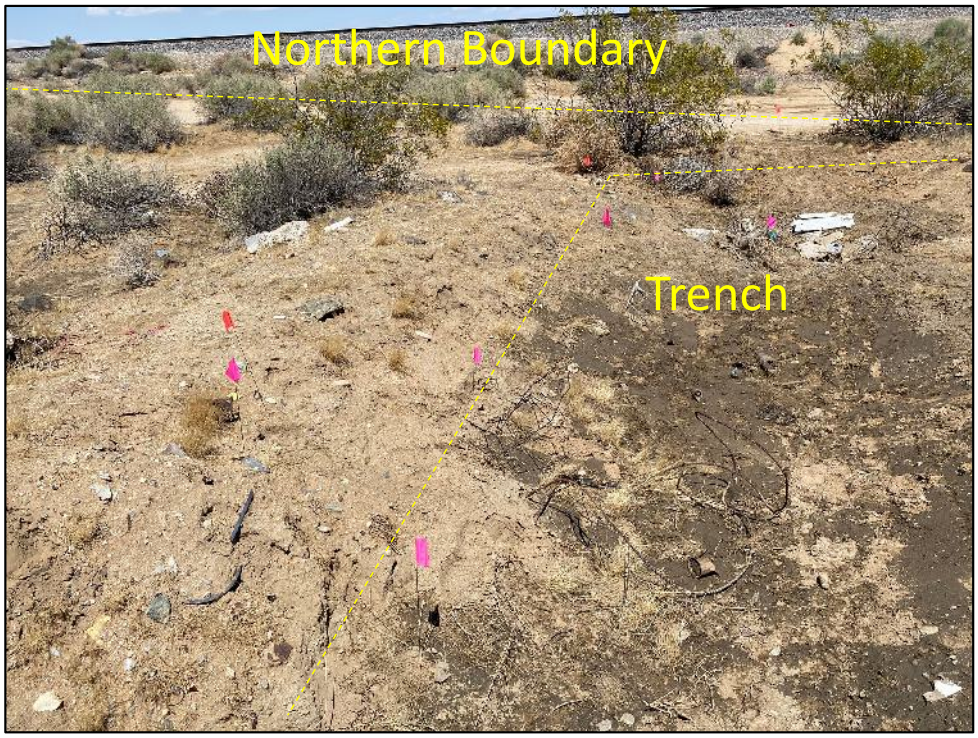


Photo 7: North facing view of the illegal dumping area and trench located near the northwestern portion of the subject property. From the geophysical survey, this area is identified as Anomaly 4.

Photo 8: Southwest facing view of the concrete debris located near the southwest portion of the subject property.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

Photo 9: West facing view from the center of the subject property containing miscellaneous metal cans.

Photo 10: Northeast facing view of another dumping area containing miscellaneous debris located near the center of the property.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

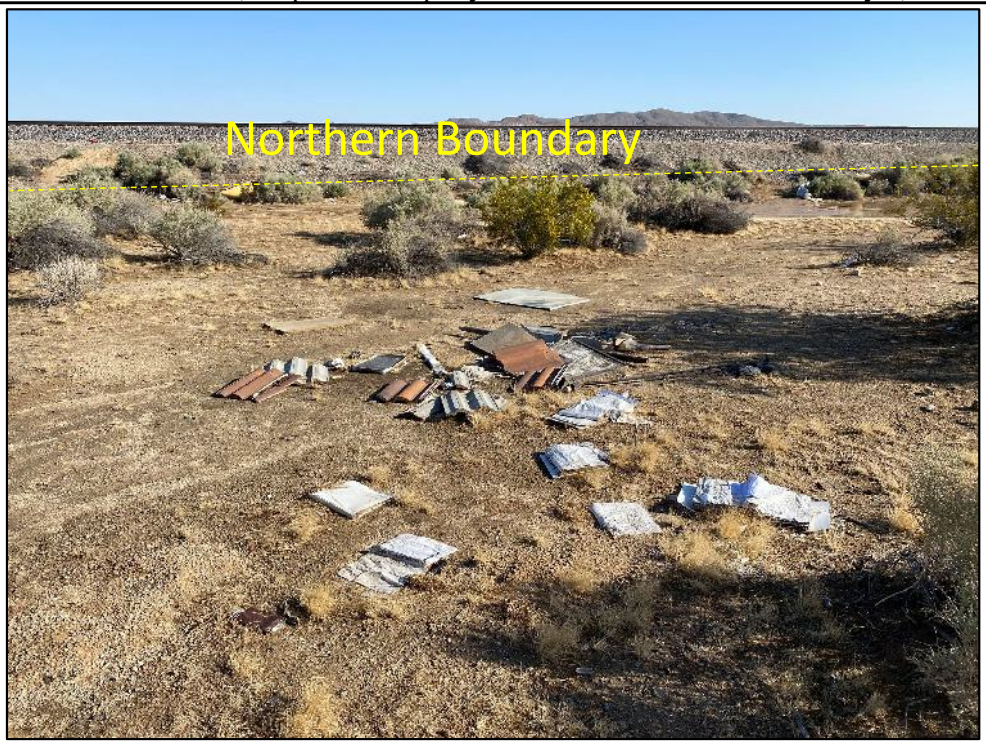


Photo 11: Alternative north facing view of dumping area containing miscellaneous debris (books and roof shingles) located near the center of the property.

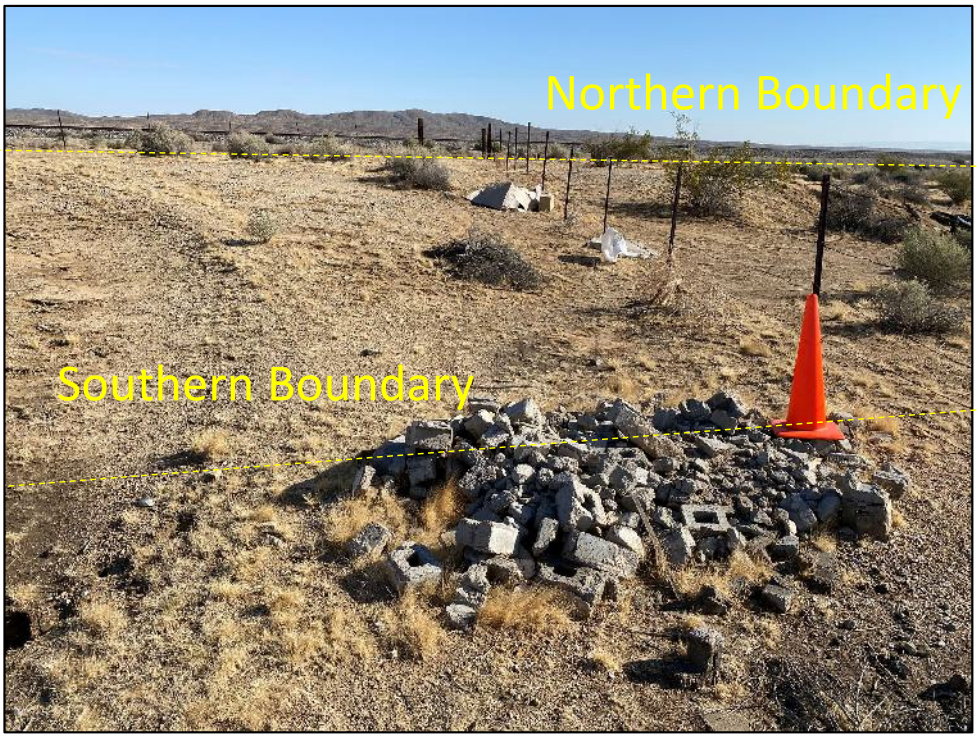


Photo 12: North facing of the concrete debris pile located along the southern property boundary.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

Photo 13: Southwest facing view of the concrete and lumber debris located south of the acquisition area (outside of the property boundary).

Photo 14: West facing view a partially buried upright metal beam located near the northeast corner.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

Photo 15: West facing view along the northeastern corner of the subject property which is undisturbed desert. The BNSF railway is located directly to the north.

Photo 16: North facing view from the northeastern portion of the subject property which is undisturbed desert.

PHOTO LOG

Client:	The BNSF Railway Co.	Site APN:	0420-161-34-0000
Project:	Phase I ESA Update Report	Location:	Barstow, CA 92311
Site Name:	BNSF – Landau, Stephen J. Property	Date Taken:	May 6, 2025

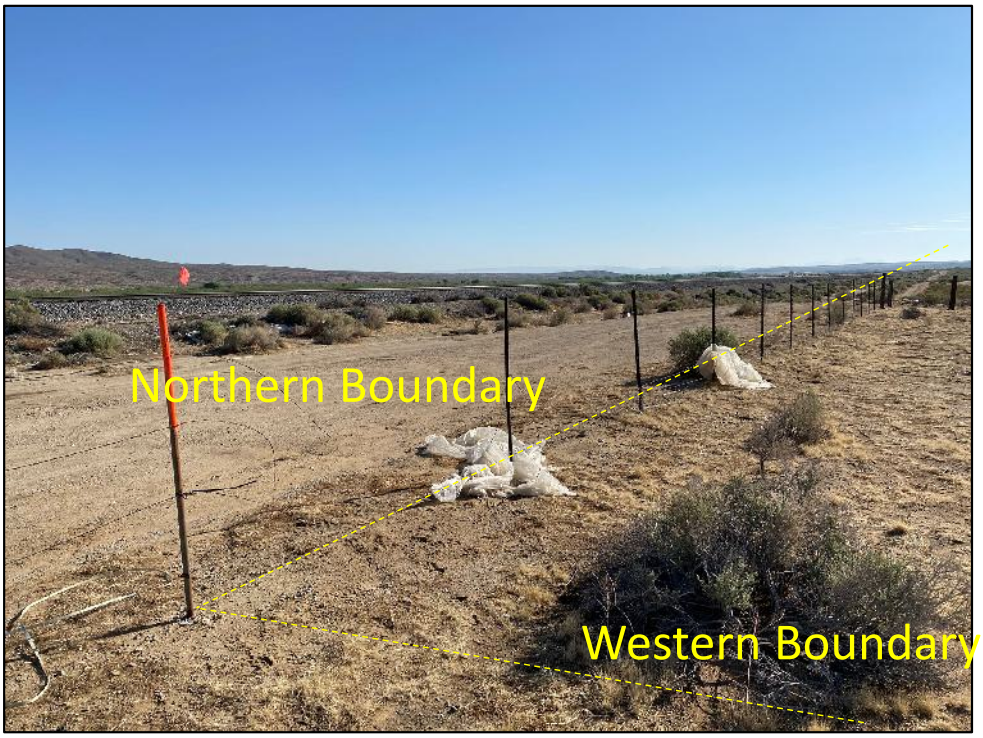


Photo 17: Northeast facing view from the northwestern property boundary which is undisturbed desert. Miscellaneous plastic tarps along fence line.

Photo 18: South facing view from the eastern portion of the subject property which is undisturbed desert.

Appendix E:
TRC Technical Memorandum Dated June 2, 2025: Summary of Phase I ESA Findings, Results of Geophysical Survey, and Path Forward Recommendations

6 Executive Circle, Suite 200
Irvine, CA 92614

t 949.727.9336

Technical Memorandum

To:	Mr. Jobi Cherian Manager Environmental Remediation
From:	Jose Maldonado Project Manager John Trompeter, PG, CHG Principal Hydrogeologist
Site:	Landau, Stephen J. Property West Main Road and Hodge Road in Barstow, California Parcel: 0420-161-34
Subject:	Summary of Phase I ESA Findings, Results of Geophysical Survey, and Path Forward Recommendations
Date:	June 2, 2025
Project No.:	665566.0000.0000

The Landau, Stephen J. Property (Subject Property, Site) is located near the intersection of West Main Road and Hodge Road in Barstow, California. Refer to **Figure 1** for the location of the Site. BNSF is assessing the Site that is associated with a partial acquisition of approximately 0.66 acres located along the northern boundary of the parcel identified by San Bernardino County Assessor's Parcel Number 0420-161-34.

The subject property is currently vacant with no structural improvements and has been owned by Stephen J. Landau since 2008.

SCOPE OF SERVICES

As a follow-up to the recommendations from the TRC *Phase I Environmental Site Assessment (ESA)* dated October 3, 2024, TRC Environmental Corporation (TRC) has prepared this technical memorandum to present:

- A summary of the previous Phase I ESA findings including recognized environmental concerns (RECs).
- The results of a geophysical survey performed in May 2025.
- Path forward recommendations.

PHASE I ESA FINDINGS

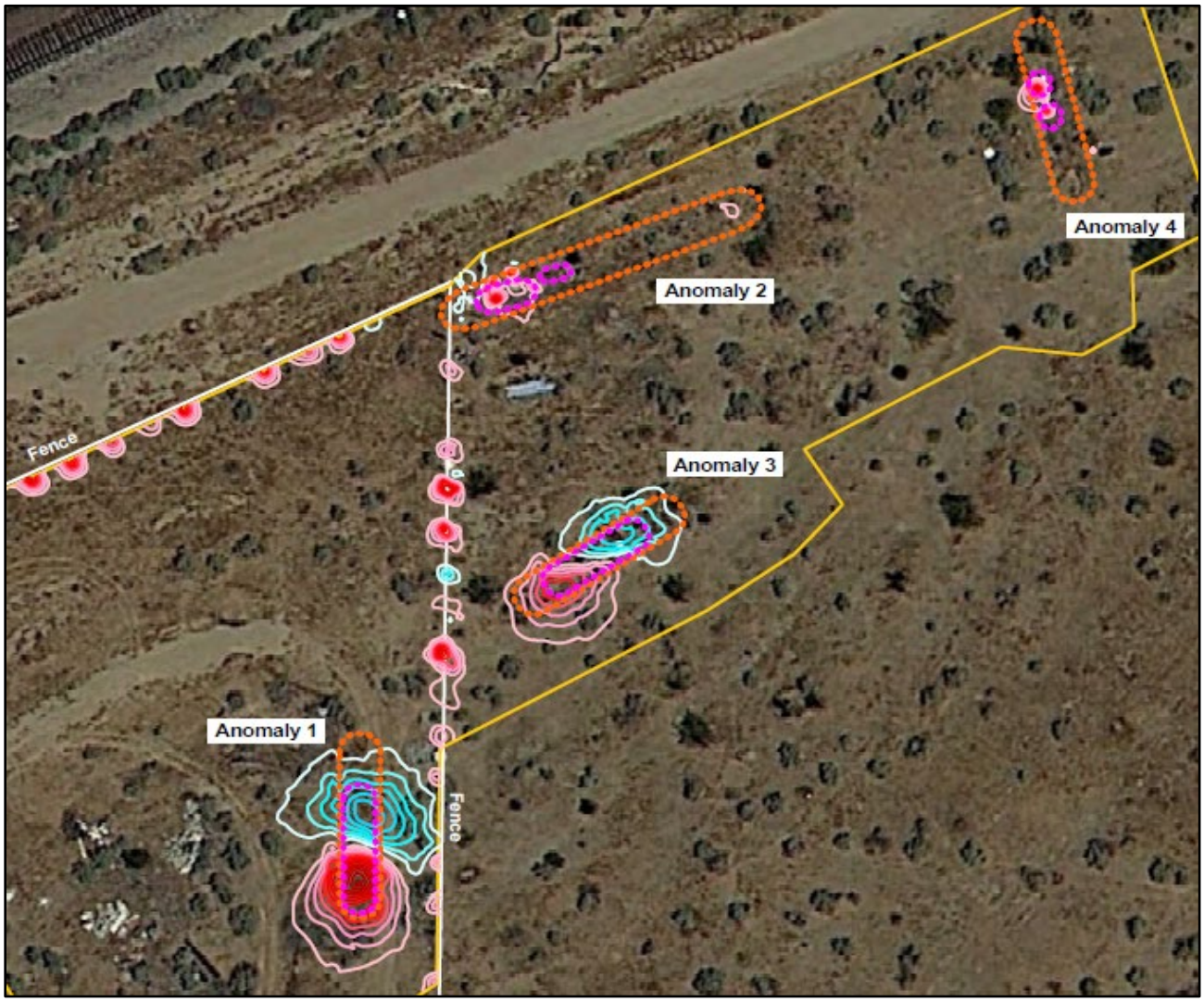
- REC No. 1 - N&M Dairy Farm located approximately 1-mile west of the Site presents a moderate threat to water quality that could have an adverse impact on the domestic or municipal water supply in the surrounding area. Based on the open status of the Waterboard case, historical waste management violations, and nitrate exceedances in groundwater dating to the early 2000's, this finding has been identified as a REC.

- REC No. 2 – Partially Buried 55-gallon Drum: One partially buried, rusted, unlabeled, 55-gallon drum was observed in the illegal dumping area located near the northwest corner of the Site (see photo below). The drum appeared to be empty and there was no evidence of spills, leaks, or staining in the surrounding surfaces; however, it is noted that stressed vegetation was observed in the area adjacent to the buried drum. Based on the unknown content of the partially buried drum and stressed vegetation, this finding has been identified as a REC. It is noted that this REC is located in the geophysical survey area identified as Anomaly 2, that is further described below.

RESULTS OF GEOPHYSICAL SURVEY PERFORMED IN MAY 2025

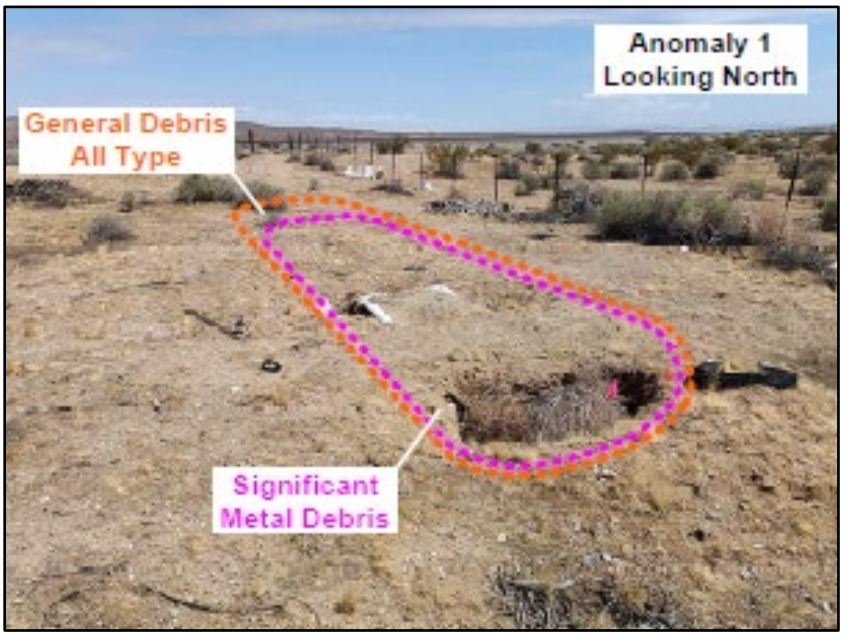
- A geophysical survey was conducted on May 6, 2025. Refer to the Geophysical Investigation Report prepared by SubSurface Surveys & Associates, Inc., dated May 20, 2025 (see **Attachments**).
- The purpose of the survey, in general, was to detect/delineate any buried metallic or non-metallic anomalous or otherwise non-native objects that may be present underground.
- The subsurface area surveyed is indicated by the blue-shaded rectangular area in the photo below and is shown in **Figure 1**. The blue-shaded area was targeted for this survey based on observations during the Phase I ESA site inspections that indicated a partially buried 55-gallon drum and illegal dumping. The overall area of BNSF's partial acquisition includes both the blue and red shaded areas.

- This geophysical equipment utilized total-field-intensity magnetometry for primary detection and a combination of electromagnetic induction (EM), magnetic gradiometry, and ground penetrating radar (GPR) for clarification/confirmation.
- The results of the geophysical survey indicated the following:
    - Four subsurface anomalies (see photo below) appeared to be in areas with elongated trenches of disturbed soil.
    - These anomalies appear to be concentrated clusters of small debris deposited within purposefully excavated trenches. The trenches ranged in length from approximately 45 to 85 feet and maintained a consistent width of about 10 feet, corresponding to the approximate width of a bulldozer blade. These trenches may have been excavated and used for improper dumping and burial of debris.
    - Anomalies 1 and 3 appeared to have large, buried objects of potential concern, and all 4 anomalies indicated significant metal debris.

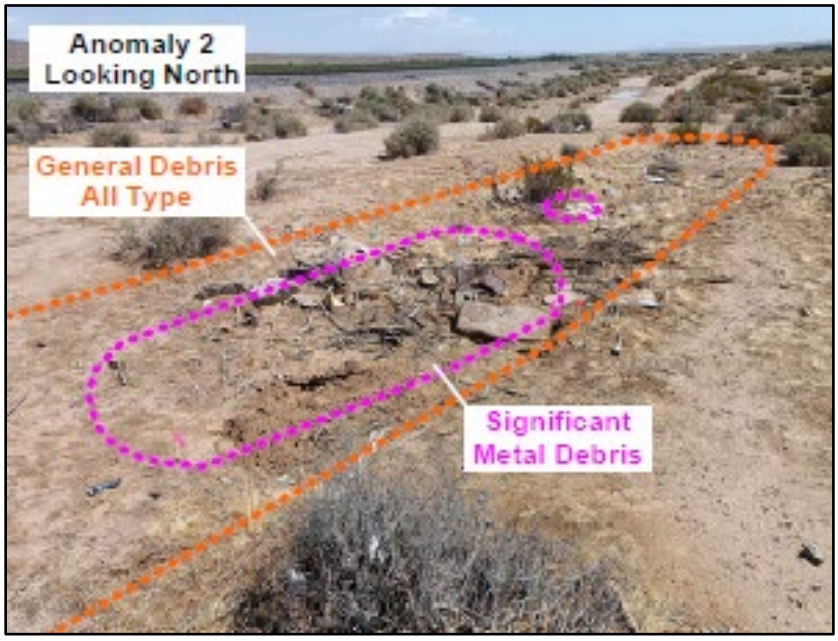


- Photos of the specific anomaly areas are included in the anomaly descriptions below.

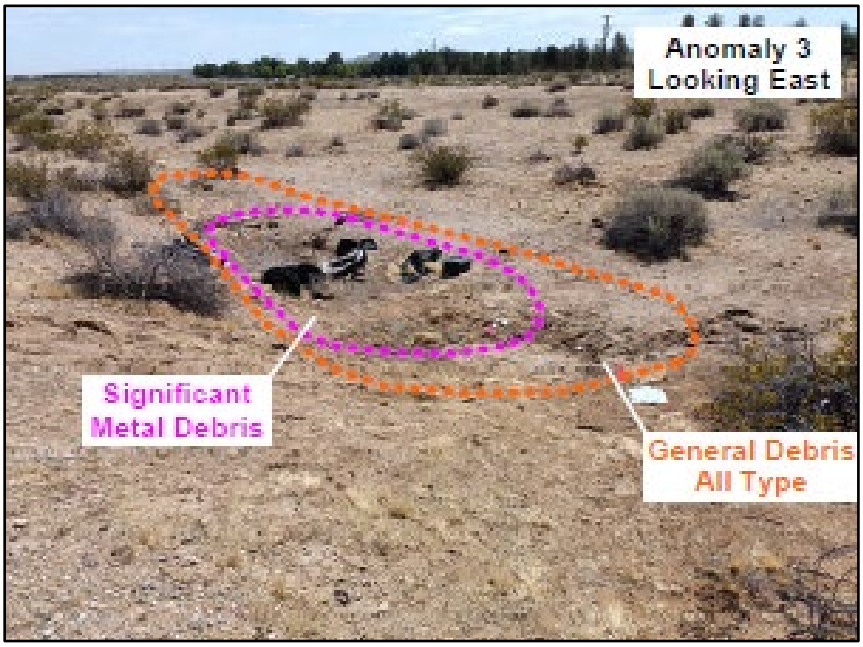
- Anomaly 1: The screening indicated significant metal debris, particularly one large metal debris object that appeared to be at least drum-sized or tank-sized. Based on observation of a roof of an old vintage car sticking out of the ground, the large object is believed to be a buried car. One additional large object appears to be immediately adjacent (to the north) of the apparent buried car. It is noted that Anomaly is outside of the Site boundary.



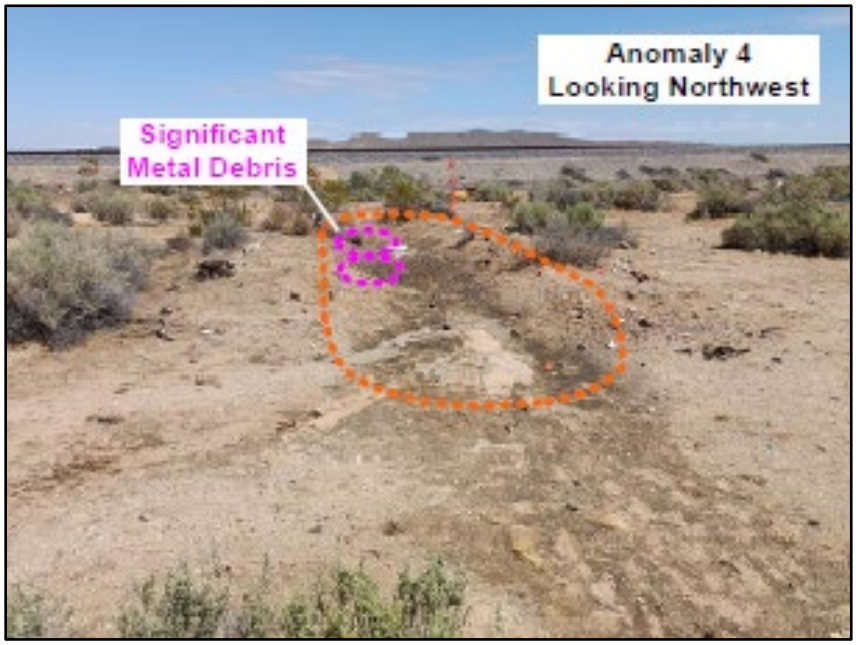
- Anomaly 2: The screening indicated significant metal debris. A car's fuel tank was visually observed on the ground and was partially buried, as well as the partially buried drum that was identified as REC No. 2 during the Phase I ESA.



- Anomaly 3: The screening indicated significant metal debris and at least one very large, buried object. Old car tires were visually observed lying on the ground surface, and it is speculated the additional car tires (with metal cords) may be buried in this location that presents a geophysical screening signature that looks like a large object(s).



- Anomaly 4: The screening indicated significant metal debris and non-metallic debris, and significant broken glass and concrete rubble was observed on the ground surface.



PATH FORWARD RECOMMENDATIONS

- TRC recommends for BNSF to consider potentially performing additional soil investigations in two areas of the Site that are characterized by what appears to be purposeful excavation of trenches for burial of various debris. These areas are as follows:
    - The area identified as Anomaly 2, which includes the partially buried drum identified from the Phase I ESA site inspection and a partially buried car fuel tank. It is noted that there was no evidence of spills, leaks, or staining in the surrounding surfaces, but stressed vegetation was observed in the area adjacent to the buried drum.
    - The area identified as Anomaly 1, which includes one large metal debris object that is believed to be a buried old car based on observation of a roof of an old vintage car sticking out of the ground.

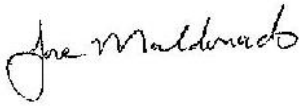
- Debris materials associated with the Subject Property, both on the ground surface and buried, should be addressed and/or properly disposed of during closing and/or development.

- If during grading or redevelopment, evidence for soil contamination is identified such as staining or odors, further evaluations and soil sampling would be recommended.

If you have any questions, please do not hesitate to contact Jose Maldonado at (661) 520-8414.

Sincerely,

TRC Solutions, Inc.

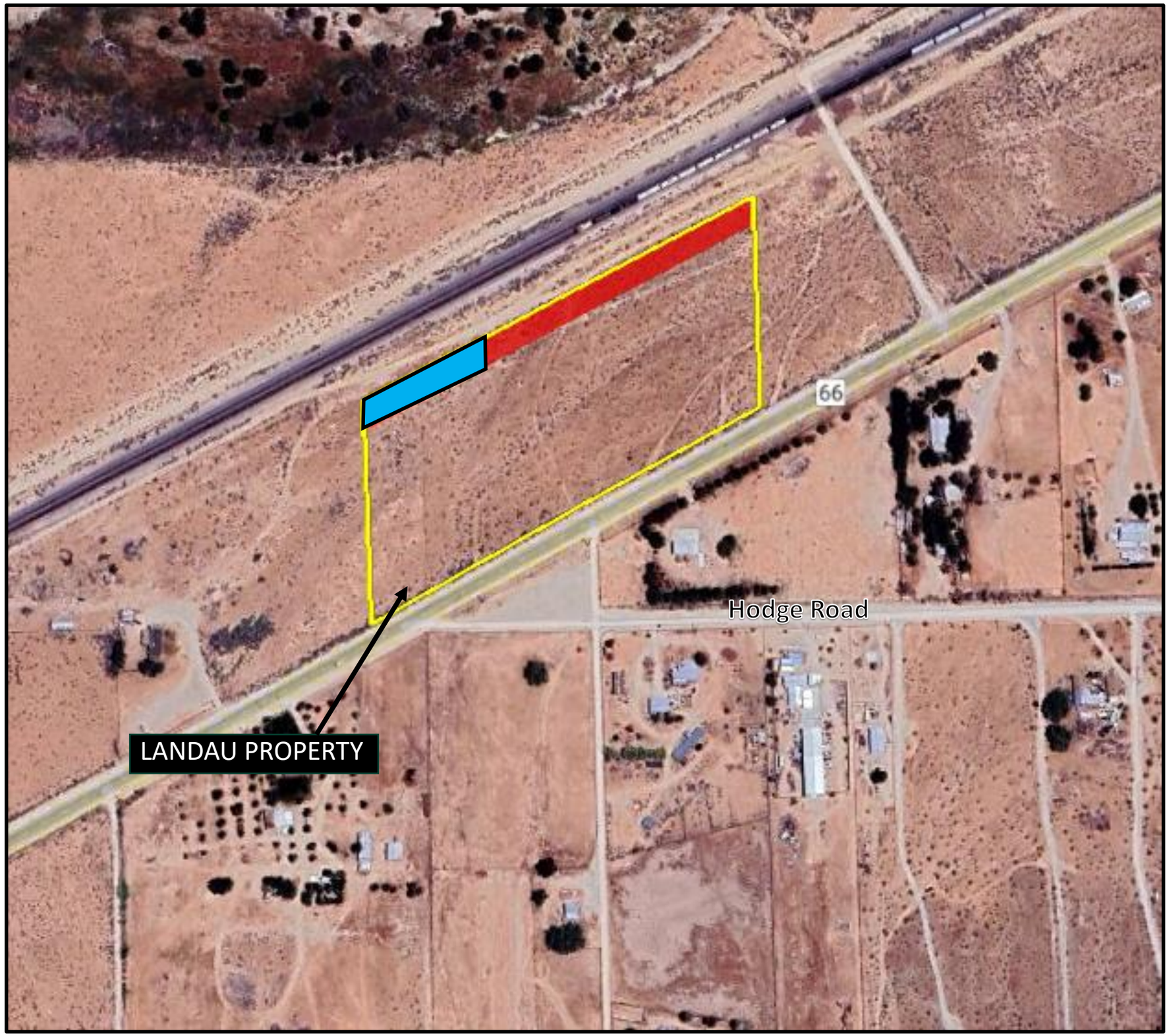


Jose Maldonado
Project Manager

John Trompeter, PG, CHG
Principal Hydrogeologist

Attachments:

- Figure 1: Site Location Map
- Geophysical Investigation Report by SubSurface Surveys & Associates, May 20, 2025



LEGEND

- APPROXIMATE PARCEL BOUNDARY
- PARTIAL ACQUISITION AREA
- GEOPHYSICAL SURVEY AREA

0 300 600 FEET

N

PROJECT: □□□D□□□□R□□□R□□
B□R□□□□□□□□□□□□□□□

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DRAWN BY:	J. MALDONADO	PROJ. NO.: 665566.9990.0000
CHECKED BY:	J. TROMPETER	□□□□R□□□
APPROVED BY:	J. TROMPETER	
DATE	APRIL 11, 2024	

TRC

6 EXECUTIVE CIRCLE
SUITE 200
IRVINE, CA 92614
PHONE: 949.7279336

NOTES: GOOGLE EARTH IMAGERY DATED: MAY 12, 2024.

SubSurface Surveys
& Associates, Inc.
An Applied Geophysical Company

2075 Corte Del Nogal, Suite W
Carlsbad, CA 92011

Office: (760) 476-0492
Fax: (760) 476-0493

May 20, 2025

Project/Invoice No. 25-197

TRC Solutions
6 Executive Circle, Suite 200
Irvine, California 92614

Attn: Samuel Franz

Re: Geophysical Investigation Report, Landau Property, W Main Rd & Hodge Rd, Barstow, CA.

This report is to present the results of our geophysical survey carried out over portions of the vacant Landau property located approximately 500 feet north of the intersection of West Main Road and Hodge Road in Barstow, California (Figure 1). The survey was conducted on May 6, 2025, and its purpose was to detect and delineate, insofar as possible, any buried metallic or non-metallic anomalous or otherwise non-native object within the subsurface.

This survey was conducted using total-field-intensity magnetometry for primary detection and a combination of electromagnetic induction (EM), magnetic gradiometry, and ground penetrating radar (GPR) follow-up clarification and confirmation.

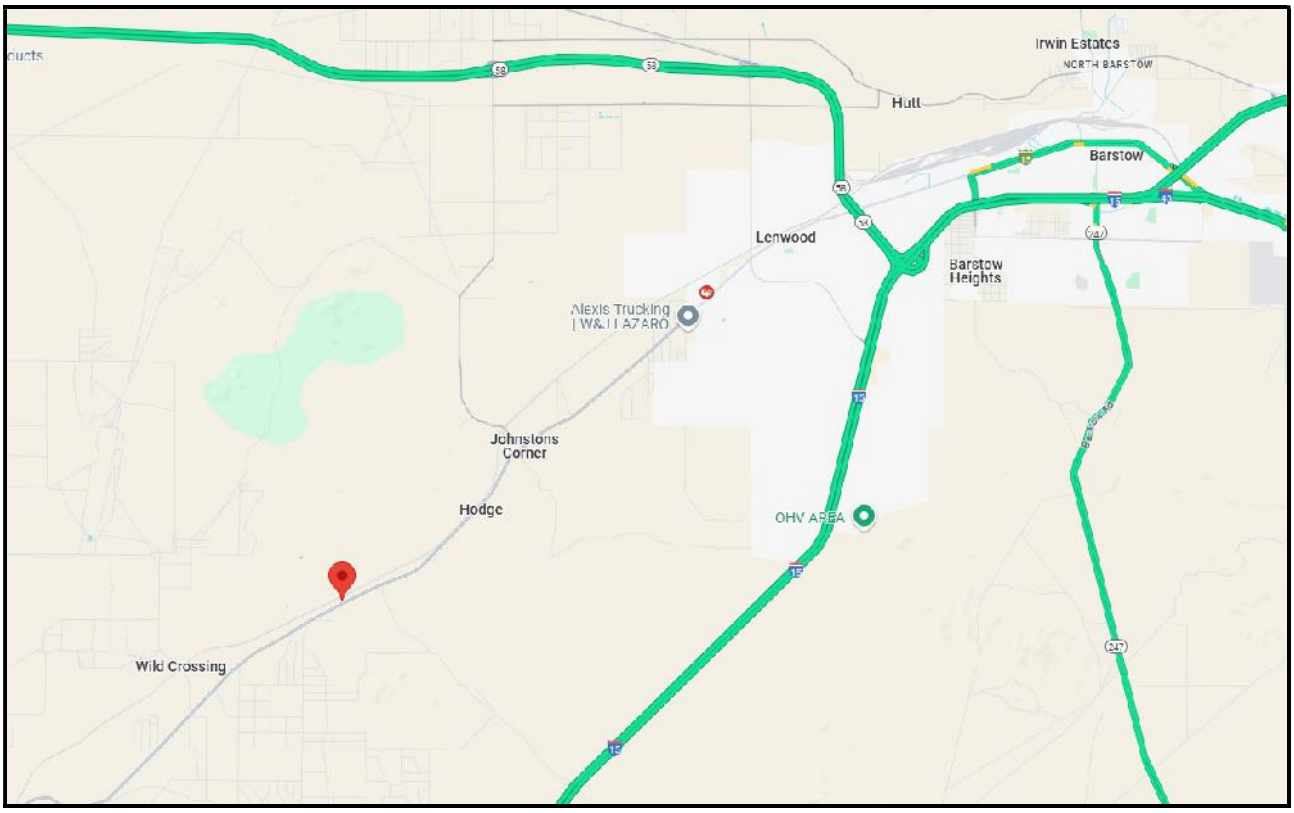


FIGURE 1. Site location map.

Site Description and Survey Design – The designated survey area as originally proposed by the client was approximately 17,000 square feet and measured 305 feet southwest-northeast and 55 feet northwest-southeast. However, as the survey progressed, and as additional suspicious areas were either visually observed or geophysically identified, the survey area eventually expanded to approximately 40,500 square feet and now encompassed a total area to be discussed further below.

Within the expanded survey area all initial investigating was performed with a cesium vapor-type total-field-intensity magnetometer (Figure 2) with integrated differential global positioning system (DGPS). Note that this instrument can take instantaneous readings and does not require its sensor to be stationary or preferentially oriented. This unit was configured to auto-record a magnetic reading every 1.0-second while simultaneously recording the sensor's global position in UTM meters. The unit's operator then continuously and methodically walked all portions of the designated survey area so as to ensure that a reading was taken at a maximum of 10-foot spacing in any direction. However, spatial coverage averaged closer to 8 feet in areas where no anomalies were detected and 5 feet in areas where the instrument was indicating a possible response. All data was later downloaded and contoured into map format in order to determine and confirm where within the survey area anomalies were located.

FIGURE 2. Magnetometer

Following the gridded surveying, a significant amount of additional investigation for clarification and confirmation was achieved by systematically free-traversing with the supplemental instruments including EM, magnetic gradiometer, and GPR. While free-traversing with these supplemental instruments only a limited amount of data can be collected, so instead the instruments were simply monitored manually, continuously, and in real-time to determine which responses might be meaningful and due to true anomalies, and which are likely due to aboveground interferences and should be ignored (examples including a barbed wire fence transecting the survey area and many small items of discarded junk simply lying on the surface). At sites such as this, free-traversing can be very time-efficient and highly effective since, in part, the instrument operator is free to fine-tune transect positions, transect orientations, and start and stop locations so as to better avoid instrument interferences. All this enhances our ability to detect true belowground anomalies quicker, which, in turn, facilitates the opportunity to immediately reinvestigate them further as they are detected for clarification and confirmation. For this purpose, these supplemental instruments were traversed in numerous, organized directions where potential magnetic anomalies were thought to possibly be detected.

Gridded magnetic surveying was conducted with a GEM Systems GSM-19W with its own internal DGPS receiver with differential corrections provided by the Wide Area Augmentation System (WAAS) (Figure 2). A Fischer M-Scope was used for the EM sampling. A Sensors and Software Noggin Ground Penetrating Radar unit with a 250 MHz antenna mounted on a SmartCart produced the radar images, and the magnetic gradiometer was a Schonstedt GA-52.

Brief Description of the Geophysical Methods Applied – Standard total magnetic field surveying employs a small, portable magnetometer to measure changes in the Earth's total magnetic field intensity and can detect variations as minute as 0.1 nanoTeslas (nT). Non-native buried ferrous objects will distort the Earth's magnetic field immediately around the object resulting in sudden spatial variations that deviate suddenly and unexpectedly from the Earth's normal background levels; and the location of these sudden distortions generally correspond to the location of the anomalous object. Note that larger metallic objects, in particular, will produce very distinctive, highly robust anomalies with amplitudes deviating up to 3000 nT above background and thus can be relatively easy to locate with this geophysical method. In the absence of nearby aboveground metallic interferences, the detection radius for this instrument can be as much as 20-feet laterally and for anomalous objects up to 20-feet below ground surface, depending on target size.

The TW-6 M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the size, electrical conductivity potential, depth, and position relative to the instrument's two coils. Generally speaking, conductive objects to a depth of approximately 6-8 feet below ground surface for the M-Scope can be sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The magnetic gradiometer has two fixed flux gate magnetic sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the Earth's natural undisturbed field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient due to the Earth's natural field being distorted around the object, the frequency of the emitted sound increases alerting the operator to the anomaly's presence. With this instruments, objects less than 5 feet deep are best sensed.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is a geo-electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the geo-electrical contrast, the higher the amplitude of the returned energy thus allowing some degree of determination of anomaly type. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. However, the depth of penetration and image resolution produced are a function of the ground's natural electrical conductivity which can vary widely from site to site and in a way that is difficult to predict.

Geophysical Survey Results and Conclusions – A preliminary data interpretation took place in real time as the survey progressed, which was later confirmed and finalized after careful review of the acquired magnetic data. These results are presented below with a site anomaly map with overlayed total-field-intensity magnetic data (Figure 3), site photographs of pertinent findings (Figures 4-12), and several sample GPR images (Figures 13-16). Note that the expanded survey area over which investigating ultimately occurred is also shown in the site anomaly map along with the location of the barbed wire fence transecting the survey area, this being a significant source of instrument interference to be ignored.

All detected items are highlighted in the accompanying graphics using coded colors including orange for the boundaries of four large anomalies where all types of general debris are apparently buried. Pink was used to

mark smaller areas within the general debris where metallic objects of significant size were additionally detected. In the field these boundaries were marked with like-colored pin flags.

While on site it was visually observed that many very-small items of debris were randomly scattered throughout the survey area and simply lying on the surface. These items were entirely innocuous and included such things as old beer cans, rusty nuts and bolts, a dented bracket from a filing cabinet, etc. Making the assumption that these were objects that the client was likely not concerned about, we chose to use the total-field-intensity magnetometer for initial surveying as opposed to an EM device since the magnetometer is somewhat insensitive to these very small surface items but will reliably respond quite robustly to larger items such as buried drums or abandoned waste oil tanks.

While using the magnetometer, four larger anomalies were quickly detected that appear to be concentrated clusters of mostly small debris within trenches purposely excavated for the burying of this debris. The length of these trenches varied between 45 to 85 feet but their widths were consistently around 10 feet or perhaps the width of a bulldozer blade. Radar imagery for each of these four anomalies appears identical, as demonstrated in Figures 13-16, which suggest that the debris within these trenches is composed of mostly small, highly reflective objects lying at odd angles and in irregular positions. This would include such things as broken glass, rubblized masonry, chunks of concrete with embedded rebar, old car parts, rusty flanges and brackets, etc. Unfortunately, these many small objects were so hyper-reflective on GPR, that the overabundance of returning energy oversaturated the radar's receiving unit in a way that could not be filtered out or processed away. This, combined with unpredictable multiple-bounce radar travel paths, meant that the GPR could clearly see that a concentrated cluster of debris was present, but could not reliably image individual objects within the cluster nor could it detect the total depth of the debris cluster.

Anomaly 1 was detected in the location shown in Figures 3-5 of which a sample GPR image is provided in Figure 13 recorded across the anomaly's short axis. Its magnetic anomaly is very robust meaning that at least one debris object within the trench is of drum or tank size, and therefore of potential concern to the client. In this case, the roof of an old 1960s vintage car could be visually observed sticking out from below the soil, as shown in Figure 4. We suggest that, besides the car, many other smaller items of debris are also present as well as one additional large object that appears to be immediately adjacent to the car and north of it.

Jumping ahead, based on its large magnetic anomaly, we suggest that Anomaly 3 will also contain at least one very large object of potential concern. It was found in the location shown in Figures 3, 9, and 10, of which a sample GPR is provided in Figure 15 recorded across the anomaly's long axis. Old car tires were visually observed lying here on the ground surface so there is the possibility that the magnetometer was responding to the metal cords within these tires but that would require many additional car tires to be buried here below ground surface.

The magnetometer's response to Anomalies 2 and 4 was somewhat identical, suggesting that the majority of the items buried in these locations are small and mostly non-metallic. Anomaly 2 was found in the location shown in Figures 3, 6-8, of which a sample GPR is provided in Figure 14 recorded across the anomaly's short axis. The magnetometer responded only moderately to this anomaly and only in certain areas so, in addition to most of the debris being small and non-metallic, as stated above, the several metallic objects here are likely small as well, perhaps being no larger than a suitcase as an example. Note that a car's fuel tank was visually observed here partially buried.

Anomaly 4 was found in the location shown in Figures 3, 11, and 12, of which a sample GPR is provided in Figure 16 recorded across the anomaly's long axis. Most of this anomaly is non-metallic and a significant amount of broken glass and concrete rubble was observed here at the ground surface. Anomaly 4 is also unusual in that some amount of this innocuous debris was found immediately outside this anomaly and piled up on the ground surface. It was almost as if these items were originally buried here, then at a later date someone excavated into the buried debris, tossing the broken glass and concrete rubble off to the side.

Within the expanded survey area only four areas were found that might be of potential concern to the client, and the total-field-intensity magnetic data supporting this assertion appears to be quite definitive. Included below are the latitude/longitude coordinates of the generalized centers of each anomaly along with their approximate dimensions. Please review the information provided below along with the accompanying site anomaly map and site photographs for the locations and orientation of these four detected anomalies.

Anomaly 1 – 34.79537°, -117.23085°, 50 x 10 feet
Anomaly 2 – 34.79576°, -117.23065°, 85 x 10 feet
Anomaly 3 – 34.79556°, -117.23065°, 45 x 10 feet
Anomaly 4 – 34.79587°, -117.23027°, 45 x 10 feet

General Geophysical Limitations, Cautions, and Further Recommendations – In a very general sense, it should be understood that nearly all work sites possess conditions or configurations limiting the effectiveness of both geophysical instruments and the surveying techniques in which they are deployed. Additionally, when such is not performing optimally it can often times occur unknowingly to the instrument operator. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Geophysical instrument interferences and other limiters are numerous and difficult to predict beforehand, but may include such things as rebar-reinforced ground cover or aboveground metallic structures interfering with metal detection, abrupt changes in ground cover type disrupting instrument signal, aboveground obstacles preventing full instrument traverses or restricting traverses to one direction only, nearby powerlines or EM transmitters interfering with instrument electronics, highly conductive background soil conditions limiting detection depths, non-metallic targets with geo-electrical properties similar to soil rendering them invisible, nearby buried objects shielding true targets from detection, tracing signal jumping from the target pipe to nearby non-target conduits, and inaccessible risers, cleanouts, valve boxes, and manholes that may provide clues. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey can be somewhat degraded.

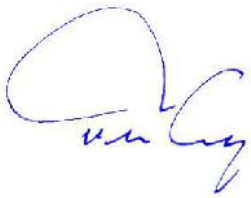
For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible and if excavation or digging activities are to follow the geophysical survey. If drilling is to occur, we further recommend hand-auguring and/or the use of air knifing or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy

of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.



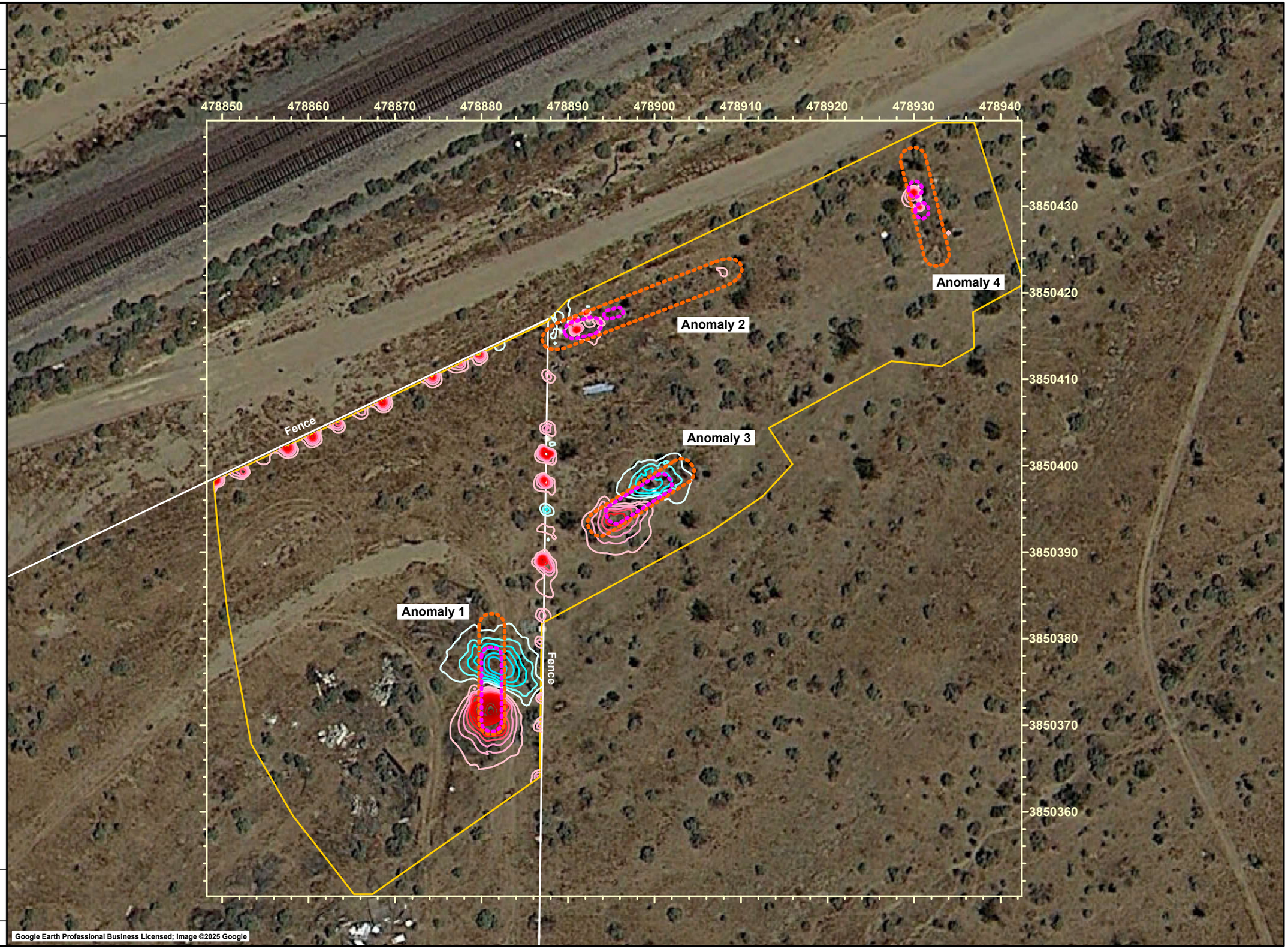
Travis Crosby
California State Geophysics Registration GP1044
Senior Geophysicist, SubSurface Surveys

SITE:
Landau Property
Intersect. of: W Main Rd and Hodge Road
Barstow, California

TITLE:	SURVEY DATE:
Site Anom. Map with Mag Data	**May 6, 2025**
PREPARED FOR:	SSS PROJECT NO:
TRC Solutions	**25-197**

LEGEND:

- Area of Instrument Coverage
- Barbed Wire Fence
- General Debris, All Types
- Significant Metal Debris
- Total-Field-Intensity Magnetic Contour Data
  Contour Range: 44,800 - 49,900 nT
  Contour Interval: 250 nT
  Natural Background: 46,600 nT
  Blue Contour <46,600 nT
  Red Contour >46,600 nT
- Survey Grid Coordinates
  Distances in UTM Meters
  Zone 11



SCALE
0 35ft

FIGURE 3

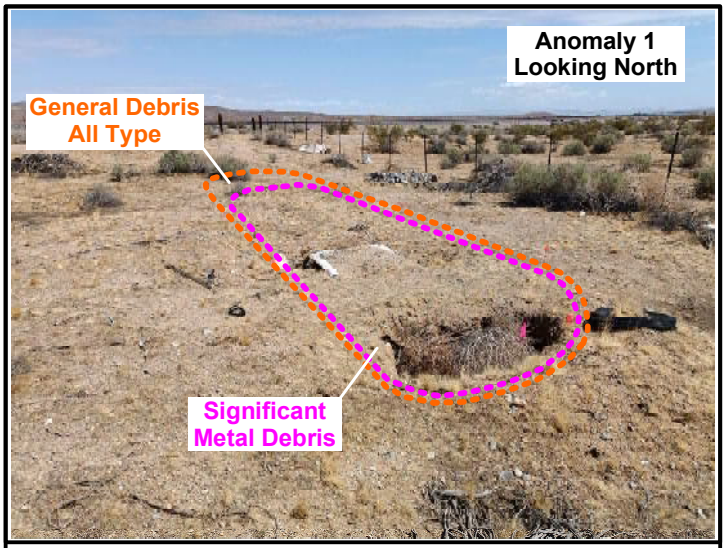


Figure 4

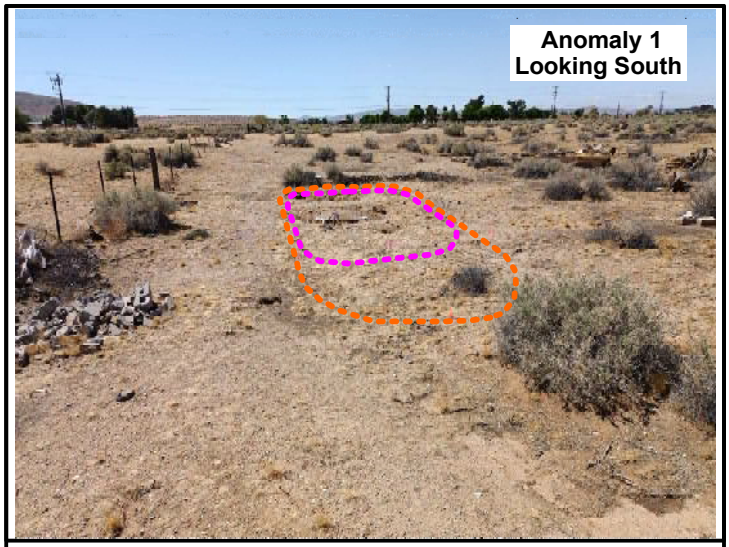


Figure 5

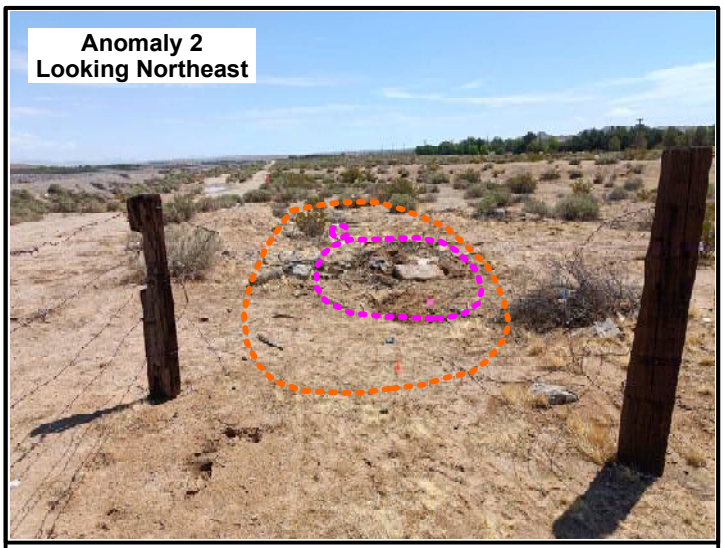


Figure 6

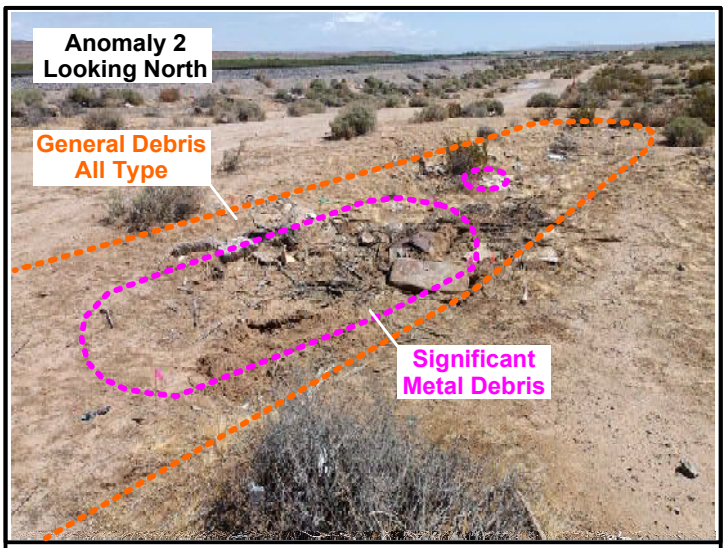
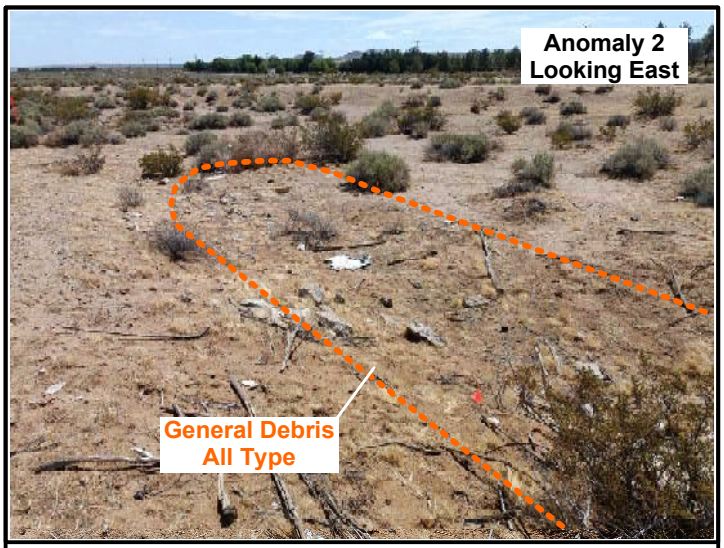


Figure 7



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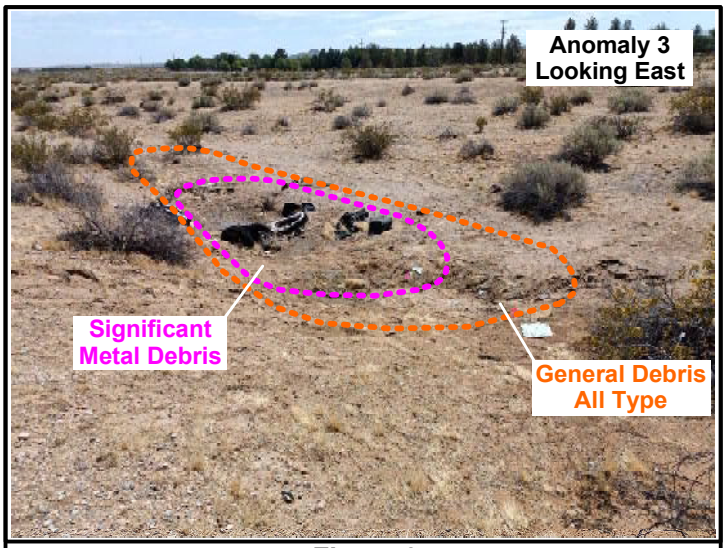
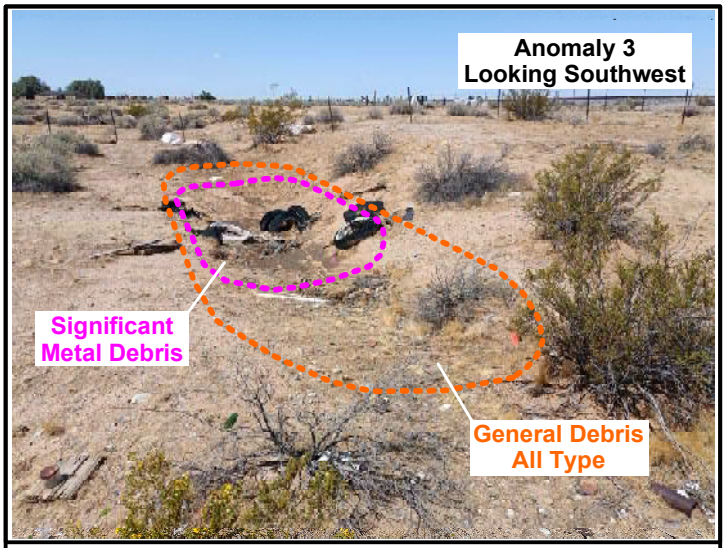


Figure 9

Sub Surface Surveys	SITE: **Landau Property** **Intersection of:** **West Main Road and Hodge Road** **Barstow, California**	TITLE: **Anomaly Photographs**	SURVEY DATE: **May 6, 2025**
		PREPARED FOR: **TRC Solutions**	SSS PROJECT NO: **25-197**



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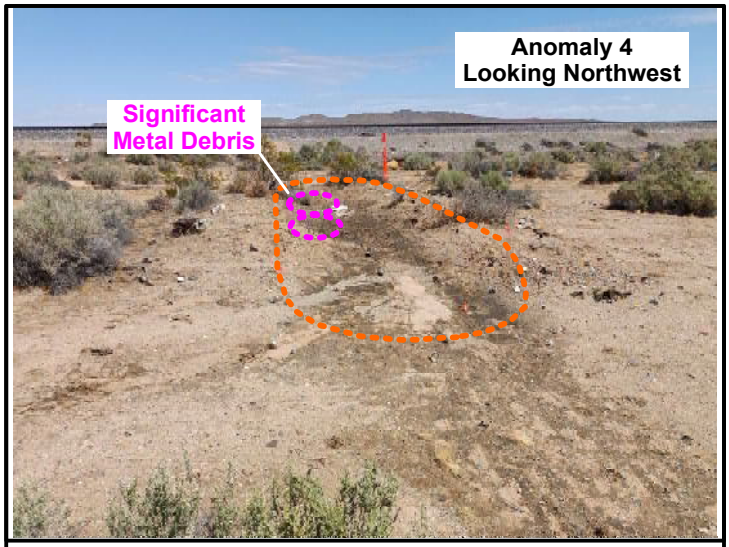

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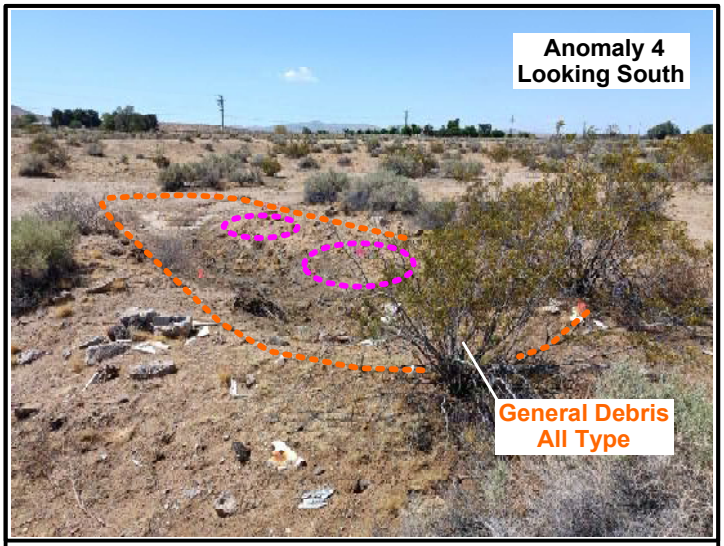
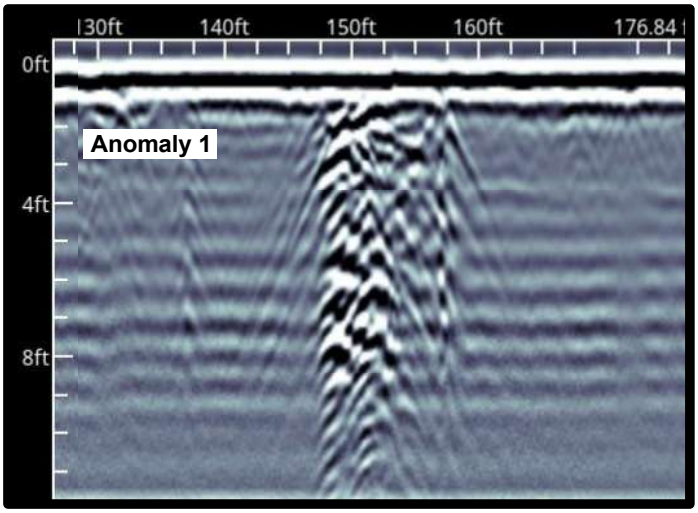


Figure 12

Sub Surface Surveys	SITE: **Landau Property** **Intersection of:** **West Main Road and Hodge Road** **Barstow, California**	TITLE: **Anomaly Photographs** PREPARED FOR: **TRC Solutions**	SURVEY DATE: **May 6, 2025** SSS PROJECT NO: **25-197**



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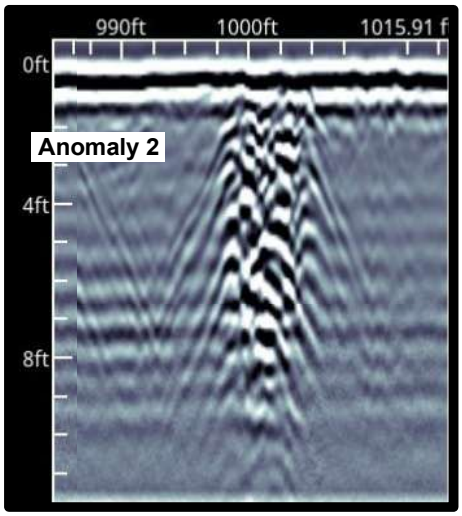

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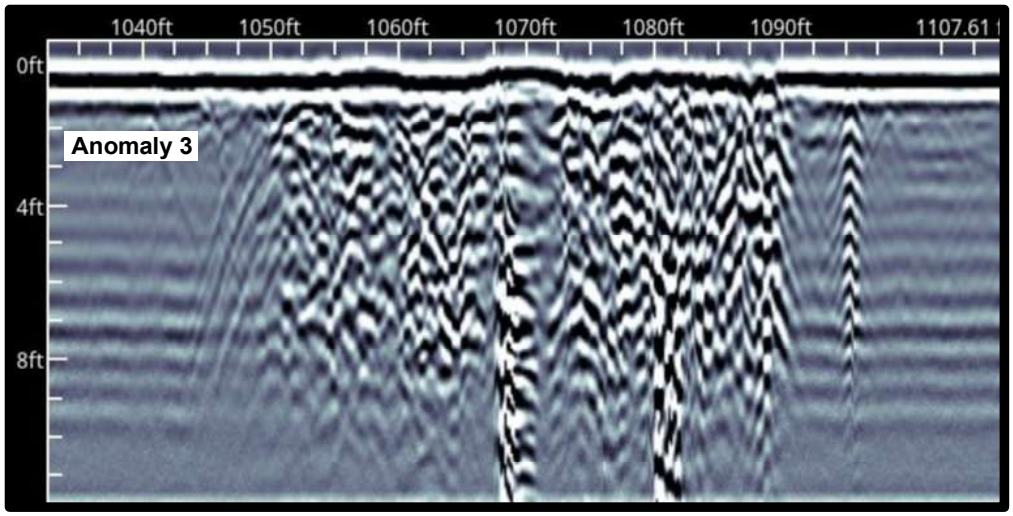

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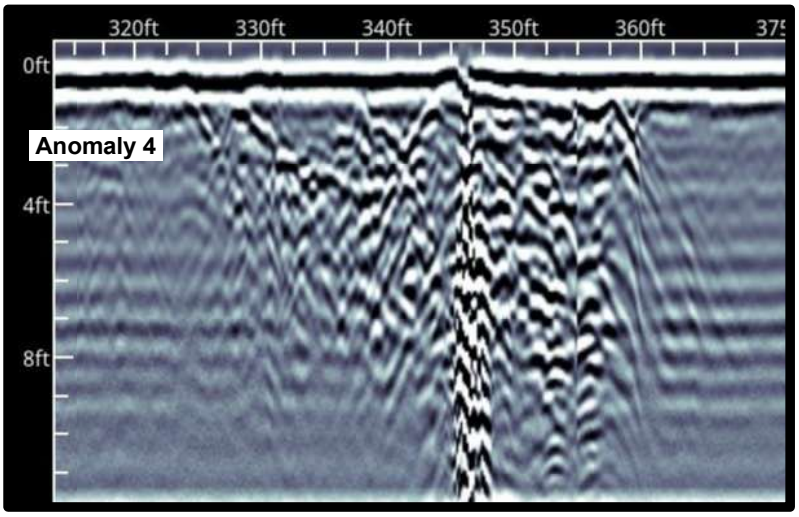

Figure 16

Sub Surface Surveys	SITE: **Landau Property** **Intersection of:** **West Main Road and Hodge Road** **Barstow, California**	TITLE: **Sample GPR Images** PREPARED FOR: **TRC Solutions**	SURVEY DATE: **May 6, 2025** SSS PROJECT NO: **25-197**

Appendix F:
TRC Staff and Environmental Professional Qualifications/Resumes

SAMUEL FRANZ

EDUCATION

B.S., Geology, California State University, Chico, 2022

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

AREAS OF EXPERTISE

Mr. Samuel Franz has environmental technical experience in the following general areas:

- Work Plan Preparation
- Health and Safety Oversight
- Sub-contractor and Construction Oversight
- Regulatory Compliance and Permitting
- Phase I and II Environmental Site Assessment (ESA) and Due Diligence
- Storm Water Pollution Prevention Plan Development

REPRESENTATIVE EXPERIENCE

Mr. Franz has 3 years of experience in the geotechnical engineering industry focusing on conducting geophysical surveys and interpret data, utilizing AutoCAD for 3D modeling of boreholes, monitoring and evaluating grout/bitumen quality, performing water pressure, directing and coordinating field crews and workers, providing detailed reports on project progress, -laboratory testing and report preparation, field investigations, data collection, and analysis

SPECIALIZED TRAINING & CERTIFICATIONS

- OSHA 40-Hour Hazardous Waste Health and Safety Training, 29 CFR 1910.120, 2022
- e-RAILSAFE Certified, Railroad Safety Trained (BNSF), 2024

JOSE MALDONADO

EDUCATION

B.S., Geological Sciences, University of California, Santa Barbara, 2011

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Qualified Industrial Storm Water Practitioner, (#00238)

AREAS OF EXPERTISE

Mr. Jose Maldonado has environmental technical experience in the following general areas:

- Phase I and II Environmental Site Assessment (ESA) and Due Diligence
- Soil and Groundwater Remedial Investigations
- Work Plan Preparation
- Health and Safety Oversight
- Sub-contractor and Construction Oversight
- Storm Water Pollution Prevention Plan Development
- Exceedance Response Action Site Assessment and Characterization
- Hazardous Material Business Plan Preparation
- Spill Prevention, Control, and Countermeasures
- Regulatory Compliance and Permitting

REPRESENTATIVE EXPERIENCE

Mr. Maldonado has 10 years of experience and progressive responsibility in the environmental engineering industry focusing on site assessment, remediation, and environmental compliance. His experience includes Phase I report preparation and Phase II implementation, soil and groundwater characterization, remedial investigations, Storm Water Pollution Prevention Plan (SWPPP) implementation, chemical inventory for Hazardous Material Business Plans (HMBP) / Spill Prevention Control and Countermeasure (SPCC), health and safety, and construction oversight. His qualifications include experience with project and portfolio management, field investigation services including: direct supervision of soil and groundwater assessment and remediation, sub-contractor oversight, technical report writing, laboratory data QA/QC, regulatory compliance, acquisition of permits, data analysis/interpretation, and field coordination/training. Mr. Maldonado's additional duties include preparation of site investigation work plans, sample collection and processing, data evaluation, county-specific environmental compliance, site specific safety plans, and traffic control plans.

BNSF Railway Company - Various Cities, CA (2016 - ongoing)

Mr. Maldonado works with the BNSF Real Estate Department to complete environmental site inspections for a portfolio that includes over 200 sites located throughout the Southern California and the Inland Empire regions. His responsibilities include coordinating access with property owners, completing Phase I and II ESAs for property acquisitions, and project management activities. Additionally, Mr. Maldonado was part of a rapid response team tasked with an expedited site assessment and excavation after a train derailment in the City of Devore. His responsibilities included on-site coordination with property owners, directing the Hazardous Material Response Team activities, supervision of drilling sub-contractor activities

(confirmation soil borings, soil vapor probe and biovent well installation), soil classification, soil sampling, sample coordination with laboratory and waste disposal sub-contractors.

LACMTA, Due Diligence, Risk Assessment, Remediation, and Construction Oversight - Los Angeles, CA (Project Geologist)

Mr. Maldonado was part of the due diligence team responsible for the acquisition of the former Maier Brewing Company located in the City of Los Angeles. His tasks included communication and coordination with the former property owner, the Phase I ESA and public records search, and Phase II implementation and report preparation. Mr. Maldonado was also part of the remedial investigation to further delineate and evaluate off-site soil gas concentrations at a former dry-cleaning operation in the City of Los Angeles. The assessment activities were conducted to investigate the presence of chlorinated volatile organic compounds in soil, groundwater, and soil gas and determine the potential environmental health risk in neighboring residential and commercial properties. Mr. Maldonado also served as the clean-up Supervisor for the homeless encampment program. His responsibilities included oversight of postings, scheduling and coordinating with local law enforcement, implementation of clean-up procedures, health and safety, and sub-contractor oversight related to cleanup activities. Additionally, Mr. Maldonado has experience in construction projects that includes: supervision of Underground Storage Tank (USTs) removals and Above Ground Storage Tank (ASTs) installation, dust control monitoring, traffic control management, and sub-contractor coordination.

Port of Long Beach and Los Angeles Unified School District – Various Sites, CA (2016-Present)

Mr. Maldonado served as the lead Environmental Professional and conducted multiple site inspections as part of the Pier B On-Dock Rail Expansion Project. His responsibilities included site reconnaissance to document visual observations and interviews with site contact(s) or Site owner's representative. Mr. Maldonado helped prepare Phase I ESAs in accordance with ASTM, summarizing the findings and conclusions based on the site reconnaissance and interview(s), EDR reports, and previously prepared environmental documents for the site. Additionally, Mr. Maldonado serves as the primary Project Geologist for multiple schools in the greater Los Angeles area. His responsibilities include: sub-contractor oversight for surveying, geophysical utility clearance, excavation, paving oversight, and drilling. Additional duties include, health and safety oversight, dust monitoring in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1466, soil and groundwater sampling.

SPECIALIZED TRAINING & CERTIFICATIONS

- OSHA 40-Hour Hazardous Waste Health and Safety Training, 29 CFR 1910.120, 2016
- OSHA 10-Hour Construction Safety and Health, 2022
- OSHA 30-Hour Construction Safety and Health, 2019
- e-RAILSAFE Certified, Railroad Safety Trained (BNSF), 2025
- Metro Rail Safety and Wayside Worker Protection Trained, 2022
- CPR, AED, and First Aid Certified, 2024
- Fugitive Dust Certified (AQMD), 2021
- CSREGS: DOT Hazmat Transportation, 2023

Appendix G:
Environmental Professional Statement

DEFINITION OF ENVIRONMENTAL PROFESSIONAL AND RELEVANT EXPERIENCE THERETO PURSUANT TO 40 CFR 312

(1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1(c)) on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f).

(2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of 3 years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of 3 years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of 5 years of full-time relevant experience; or (iv) have the equivalent of 10 years of full-time relevant experience.

(3) An environmental professional should remain current in his or her field through participation in continuing education or other activities.

(4) The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in §312.21(b).

(5) A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1(c)) to the subject property. TRC personnel resume(s) are included in **Appendix F**.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312.

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 all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signature of Environmental Professional: _____ Date: 06/05/2025

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Ellis Reno Parcel 0421-051-02
21880 West Main Street (National Trails Highway)
Barstow, California 92311

Prepared for

2500 Lou Menk Drive
Fort Worth, Texas

Prepared by

17911 Von Karman Ave., Suite 400
Irvine, California
Telephone: (949) 727-9336
Fax: (949) 727-7311

Project No. 317656

January 8, 2019

Phase I Environmental Site Assessment
Ellis Reno Parcel 0421-051-02
Barstow, California

January 8, 2019

Environmental Professional Certification: I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10.

_____
Matthew R. Eaton, P.G.
Senior Project Manager

Standard Certification: I have the specific qualifications based on education, training and experience to assess the nature, history, and setting of the subject property. I have developed and performed the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

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1.0 INTRODUCTION

1. This Phase I Environmental Site Assessment (Phase I ESA) was prepared for the approximately 17.45-acre property located at 21880 Main Street (National Trails Highway-Route 66), in Barstow, California (herein referred to as "the Site). Figure 1 shows the Site location.

2. The Site is identified as assessor's parcel number (APN) 0421-051-02-0000 with legal description PTN SW 1/4 SEC 34 TP 9N R 3W LY1NG W OF STATE HGWY EX RR R/W 41.66 AC M/L. The County Assessor's office map indicates the parcel encompasses 33.66 acres and extends to the west of BNSF right-of-way for an additional 16.21 acres. This Phase I report includes only the 17.45 acres that is between West Main Street and the BNSF right-of-way (see Figure 2).

3. In addition to this Phase I, some limited Phase II soil and groundwater sampling were conducted during the Phase I site inspection. The results of the soil and groundwater sampling are included herein. Figure 2 is a Site plan from satellite imagery with the boring locations.

4. This Phase I ESA was prepared for BNSF for its use regarding the Site.

1.1 STATEMENT OF PURPOSE

1. The purpose of this Phase I ESA was to review environmental conditions prior to potential purchase of the Site by BNSF.

2. The Phase I ESA was prepared in general conformance with the methods and procedures described in the United States Environmental Protection Agency's (EPA's) *Standards and Practices for All Appropriate Inquiries* (i.e., the "AAI Rule" 40 CFR part 312) pursuant to the American Society of Testing and Materials (ASTM) Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The Phase I ESA objectives, scope, significant assumptions, list of client provided information, exceptions and limitations, are presented in the following sections.

1.2 OBJECTIVE

1. The objective of this Phase I ESA was to evaluate whether current or historical activities on or adjacent to the Site have potentially resulted in significant contamination by hazardous substances or petroleum products, which is subsequently referred to in this report as a "Recognized Environmental Condition" (REC), a "Historical Recognized Environmental Condition" (HREC) or a "Controlled Recognized Environmental Condition" (CREC).

   A REC is defined as:

   > "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."
   >
   > However, According to the ASTM Phase I ESA standard, the term "Recognized Environmental Condition" is not intended to include *de minimis*

> conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government authorities.

A HREC is defined as:

> "A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls). Before calling the past release an HREC, the EP must determine whether the past release is a REC at the time the Phase I ESA is conducted (e.g., if there has been a change in the regulatory criteria). If the EP considers this past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC."

A CREC is defined as:

> "A REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a NFA letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, AULs, institutional controls, or engineering controls)… a CREC shall be listed in the Findings Section of the Phase I ESA report, and as a REC in the Conclusions Section of the …report."

1.3 DETAILED SCOPE OF SERVICES

1. This Phase I ESA was completed by an environmental professional as defined by the AAI Rule. The detailed scope of services consisted of the following tasks within the scope of ASTM Standard E1527-13:

   Current Site Conditions

   - Site inspection to evaluate the nature and type of activities that are conducted at the property in terms of potential for release or threat of release of hazardous substances or petroleum products.
   - Inspection of surrounding properties to evaluate the potential for affecting the Site.
   - Description of the physical setting of the Site.
   - Interview with a Site representative and with local or state environmental agency personnel, as applicable.

Historic Site Conditions

- Review of historic aerial photographs, topographic maps, and Sanborn fire insurance maps, as available.
- Review of records on file with regulatory agencies.
- Environmental lien search.
- Environmental database review.

Environmental Agency Review

- Review of environmental databases conducted by a third party, Environmental Data Resources (EDR), and provided to TRC.
- Review of regulatory agency records at state and local environmental agencies.

2. In addition to the above, some limited Phase II sampling was conducted based on observations during the Phase I site inspection. The Phase II sampling included:
   - A water sample from an onsite groundwater well.
   - Three shallow soil borings in surface-stained areas.
   - Analysis of the soil and groundwater samples at a State-certified laboratory for California-regulated priority pollutants.

3. The following list of "additional issues" that are considered outside the scope of the ASTM Phase I ESA practice by ASTM Method E1527-13 were not included or addressed in this Phase I ESA:
   - Asbestos
   - Lead-based paint
   - Radon
   - Lead in drinking water
   - Wetlands
   - Regulatory compliance
   - Cultural and historical resources
   - Industrial hygiene
   - Health and safety
   - Ecological resources
   - Endangered species
   - Indoor air quality
   - Bio-agents and mold

1.4 SIGNIFICANT ASSUMPTIONS

1. We have assumed that the information sources utilized for this assessment provided complete and accurate information. Evaluations presented in this report are based exclusively on information provided by the County of San Bernardino, agency representatives, available public records, and observations made during the Site inspection.

1.5 CLIENT PROVIDED INFORMATION/PHASE I USER QUESTIONNAIRE

1. The following documents and/or information were provided by BNSF:
   - APN parcel numbers.
   - Site location map from satellite imagery.

2. According to the ASTM Standard E1527-13, certain tasks that may help identify the presence of RECs associated with the Site are generally conducted by the Phase I ESA User (in this case the "Phase I User" is BNSF). These tasks include reviewing title records for environmental liens or activity and land use limitations; providing specialized knowledge related to RECs at the Site (e.g., information about previous ownership or environmental litigation); and providing explanations for significant reduction in the Site purchase price. It is our understanding that BNSF does not have previous environmental documents or specialized information regarding this Site.

3. Appendix A includes the Phase I User documentation as required by ASTM Standard E1527-13.

1.6 DATA GAPS

1. No significant data gaps were identified during completion of this Phase I ESA.

1.7 EXCEPTIONS AND LIMITATIONS

1. TRC performed the activities described herein in accordance with the ASTM Standard E1527-13 for Phase I ESAs. Certain information contained in this report was provided by third parties or other outside sources. TRC does not make any warranties or representations, whether expressed or implied, regarding the accuracy of such information, and shall not be held accountable or responsible in the event that any such inaccuracies are present.

2. This report was prepared solely for the use of BNSF, its agents, and its legal counsel, as it pertains to the Site. The judgments, conclusions, and recommendations described in this report pertain to the conditions judged to be present or applicable at the time the work was performed. Future conditions may differ from those described herein, and this report is not intended for use in future evaluations of the Site, unless an update is conducted by a consultant familiar with environmental assessments. The purpose of this assessment was to provide information about the Site and the surrounding area relative to the potential environmental concerns and the potential presence of hazardous/toxic materials at the Site. Any reliance on, or use of, this report by any third party shall be at such party's sole risk.

2.0 SITE DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

1. This Phase I ESA was conducted for the property located on 21880 Main Street in Barstow, California. The parcel map on file at the San Bernardino County Assessor's office (APN 0421-051-02) indicates the parcel limits extend to the west of the existing BNSF right of way (total of 33.66 acres); however, this Phase I includes only the 17.45 acres located between West Main Street and the BNSF right-of-way.

2. Figure 2 is a Site Map from satellite imagery.

2.2 CURRENT SITE USE

1. The property is abandoned and generally vacant. Burned remains of a residence are located near the entrance from West Main Street (National Trails Highway). Multiple abandoned wooden structures are located in the northern portion of the Site. One shed appears to have been previously utilized as a dog kennel.

2.3 SURROUNDING LAND USES

1. The surrounding area was observed on the same day as the Site inspection. Observations of surrounding properties were limited to areas accessible to the public, and areas that could be readily observed from the Site. The following descriptions summarize the adjacent property uses:

North	-	Vacant.
South	-	West Main Street beyond which are residential and vacant parcels.
East	-	West Main Street beyond which is vacant land.
West	-	BNSF right-of-way beyond which is the Mojave River.

2.4 REGIONAL TOPOGRAPHY AND HYDROGEOLOGY

1. During site inspection on October 18, 2018, a domestic water supply well was identified onsite. Depth to water in the well was gauged at 41 feet below ground surface (bgs). Further information regarding the well is included in Section 6.0.

2. The Site is located within the South Lahontan Hydrologic Region, specifically the Middle Mojave River Groundwater Basin in the County of San Bernardino. According to the United States Geological Survey (USGS) topographic map, Hodge quadrangle dated 1971 (Figure 1) and Environmental Data Resources, Inc. (EDR) database report, the Site topographic elevation is approximately 2,296 feet above mean sea level (MSL), and local topography slopes generally to the west.

3. The Site is bound to the west by the Mojave River. Sources of water in the basin include percolation from precipitation, and infiltration of rainwater runoff. Water-bearing deposits are unconfined within this water basin (Middle Mojave River Valley Groundwater Basin, Revised October 1, 2003).

4. The EDR database report (see Appendix B) indicates there are records for approximately 52 groundwater wells within a 1-mile radius. The nearest well was identified approximately 1/4 to 1/8 mile to the east of the Site (Well ID USGS40000155087). The well depth is 150 feet, and the depth to water was 44.6 feet as of May 18, 1932.

5. Groundwater flow direction in the Mojave River Groundwater Basin near the Site is generally to the northwest, and depth to water in several USGS water supply wells ranged from 20.3 feet below grade to 62.44 feet below grade (EDR, 2018). However, a subsurface investigation would be required to determine actual groundwater flow direction and depth.

6. The database radius report supplied by EDR was reviewed to obtain information regarding the dominant soil composition in the Site vicinity. This information is summarized below:

Hydric Status:	Not Hydric
Soil Surface Texture:	Loam
Soil Component Name:	Cajon, Joshua, Victorville, and Villa
Deeper Soil Types:	Variable

Refer to the Geocheck Physical Setting Source Summary of the EDR report presented in Appendix B for further information regarding the soil composition in the Site vicinity.

7. Per Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map 06071C4525F dated October 12, 2018, the Site is located in Zone D (unshaded). According to FEMA's Flood Zone Designations, Zone D represents an area of undetermined flood hazard. The FEMA Flood Insurance Map is provided in Appendix C.

2.5 GROUNDWATER QUALITY

1. The onsite well was sampled as part of this work. The results are presented in Section 6.0.

2. The GeoCheck® database provided with the EDR report (Appendix B) indicates there are approximately 52 wells within a 1-mile radius (pages A-12 to A-36 in Appendix B).

3. Limited groundwater quality data for inorganic constituents were included in the GeoCheck® database for several of the wells in the Site vicinity. Exceedances of drinking water standards were not reported (see pages A-12 to A-36 in Appendix B).

4. It is our understanding that previous groundwater investigations have not been conducted at the Site.

3.0 HISTORICAL INFORMATION

1. Historical information was reviewed to evaluate previous use and history of the Site. The following sources of information were reviewed during the course of this investigation:

   - Interview with Owner or Owner's Representative
   - Aerial Photographs
   - Sanborn Maps
   - USGS Topographic Quadrangle Maps
   - City Directories

2. Historical site ownership as listed in the San Bernardino County Property Information Management System (PIMS) is summarized below. The PIMS Report is included in Appendix D.

Ellis Reno	1987	Present
R.V. and Grace Crabtree	1957	1987

3.1 INTERVIEW WITH OWNER

1. The current property owner, Mr. Ellis Reno, was contacted regarding Site history and background. Mr. Reno reported:

   - He purchased the property in 1987.
   - Used the property for agricultural purposes, boarding horses, and for breeding dogs (kennel).
   - A water well was drilled and installed in 1987.
   - A residence was previously located on the parcel and the residence was destroyed in a fire.
   - The previous owner lived in the residence on the property and utilized the property for agricultural purposes.

2. TRC provided an environmental questionnaire to Mr. Reno to review. The completed questionnaire is included in Appendix A and indicates the current owner was not aware of previous activities at the Site which may have included a historical gas station, underground storage tanks (USTs), aboveground storage tanks (ASTs), septic tanks, tenants, subleases or previous investigations on the Site.

3.2 SANBORN MAPS

1. EDR reported there is no Sanborn map coverage for the Site or nearby surrounding area. Historical Sanborn® Fire Insurance Maps (Sanborn Maps) were originally produced for assessing fire insurance liability in urban areas in the United States. The maps provide detailed information (i.e., building construction, facility occupants, storage tank locations, and hazardous material storage areas), which can be used as a resource to document land use and structural change over time.

3.3 AERIAL PHOTOGRAPH REVIEW

1. EDR provided eight aerial photographs from several collections dating from 2016 to 1953. Copies of the aerial photos are shown in Figures 3 through 10. Features observed in the photographs are summarized below.

2016 Aerial Photos (Figure 3)

- The Site is vacant with debris and vegetation in the northern end of the Site. The former residence in the north end of the Site is gone. The southern part of the site is vacant.

2012 - 1994 Aerial Photos (Figures 4 - 7)

- The property appears to be active through these years; the residence is first present in the 1994 photo and several small sheds are located in the north and west sides of the property.
- In the 2005 photo, darkened surface is shown in the east side of the property and on the east side of West Main Street (National Trails Highway) possibly indicating a recent brush fire.

1984, 1972, and 1953 Aerial Photos (Figures 8 to 10)

- The Site is undeveloped and vacant. Two dirt road cross between the Site along the northern boundary and in the middle portion of the Site from Main Street to the BNSF right-of-way.

3.4 USGS TOPOGRAPHIC QUADRANGLE MAPS

1. Ten USGS topographic maps dated 1932, 1934, 1956, 1971, 1984, 1993, and 2012 were obtained and reviewed for information concerning historical activity on or adjacent to the Site. The topographic maps are included in Appendix B. Observations are summarized below:

1932 and 1934 *(30-Minute Quadrangle)*

- Mojave River is labeled on the map.
- A water well feature is shown north of the Site.
- Railroad right of way is shown and labeled Santa Fe to the west of the Site.

1956 *(15-Minute Quadrangle)*

- No structures are shown on the Site.
- Union Pacific railroad is identified adjacent to the west of the Site.
- Small structures are shown in the Site vicinity.
- Seasonal stream, unpaved road, and dike are shown north of the Site.

1971 (*7.5-Minute Quadrangle*)

- No structures are shown on the Site.
- The railroad is labeled on the map as AT&SF.
- Small structures are shown in the Site vicinity.

1984 *(15-Minute Quadrangle)*

- No significant changes throughout the Site.

1993 (*7.5-Minute Quadrangle*)

- One structure is shown in the north end of the Site in the 1993 photo.

2012 (*7.5-Minute Quadrangle*)

- The site is vacant; the structure shown in the 1993 topo is not shown.
- The railroad right of way is not shown on the 2012 topo map.

3.5 CITY DIRECTORIES

1. Listings in City directories for the time period of 1975-2014 were provided by EDR. The site address (21880 Main Street) was only listed in the directory for 2000, and the occupant was listed as "occupant unknown" (page A6 in the City Directory Image Report in Appendix B).

3.6 ENVIRONMENTAL LIEN SEARCH

1. An Environmental Lien Search was provided by EDR for parcel 0421-051-02. No environmental liens or activity and use limitations (AULs) were identified for the parcel. A copy of the environmental lien report is included in Appendix B.

2. The deed for parcel 0421-051-02 is vested to Ellis Reno, Mariella B. Reno, Ellis E. Reno II, and Wanda L. Reno.

4.0 RECORDS REVIEW

1. Various regulatory agencies were contacted regarding records and/or files for the Site, and a regulatory database report was obtained from EDR. Agencies contacted or records reviewed included:
    - County of San Bernardino, Assessors Office and Land Use Services Department.
    - City of Barstow, Fire Protection District
    - San Bernardino County Fire Department, Hazardous Materials Division.
    - California Regional Water Quality Control Board, Santa Ana Region (RWQCB).
    - California EPA - Department of Toxic Substances Control (DTSC) Chatsworth and Cypress offices.

4.1 PREVIOUS ENVIRONMENTAL REPORTS

1. Previous environmental reports regarding the Site were not provided to TRC.

4.2 REGULATORY DATABASE REVIEW

1. A regulatory database report summarizing available regulatory search information regarding the Site and other sites within a 1-mile radius was obtained from EDR. The database search is based on information published by federal, state, and local regulatory agencies, and is used to determine whether the Site or nearby properties are listed as having a past or present environmental record of actual or potential environmental impacts from hazardous substances or materials. The regulatory listings include those facilities known to the regulatory agencies at the time of publication or update of the database. The database report was reviewed to evaluate whether the Site or nearby properties are listed in the databases which could indicate a REC on the Site. The EDR report is included in Appendix B.

4.2.1 SITE

1. The Site address was not listed in any of the databases in the EDR Radius Report.

4.2.2 ADJACENT SITES

1. The EDR report does not identify any sites within a 1-mile radius of the Site (see Radius Map on Page 11 in Appendix B).

2. The regional groundwater flow direction in the Site area is reported to be in the northwesterly direction similar to local topography (refer to Section 2.4). Therefore, sites reported to the southeast of the Site are potentially upgradient with respect to groundwater flow, and may affect the Site.

3. The EDR report lists does not list any sites located at lower elevation (potentially downgradient sites) within a ½-mile radius of the Site.

4.3 CITY AND COUNTY AGENCY RECORDS

4.3.1 COUNTY OF SAN BERNARDINO, DEPARTMENT OF LAND USE SERVICES AND ASSESSORS OFFICE

1. The following permits were identified through phone interview for the Site. Site interview contact for the County of San Bernardino Assessors Office records review was Vanessa Vasquez, and Margarete Garcia for the Land Use Services Department. Copies of the permits were requested and not available at the time of reporting.

   July 20, 1989: A permit for dry wall, sink install, shower, toilet, replace heating and description of new structure, cabinets, and electrical service (Permit No: 06672).

   December 12, 2013: Damage property – All improvements were destroyed by fire.

4.3.2 CITY OF BARSTOW, FIRE PROTECTION DISTRICT

1. The City of Barstow Fire Protection District was contacted regarding records for the Site. At the time of report, no records had been filed. A phone interview was conducted with Heather Adams, and Ms. Adams indicated the City's database did not extend back to 2013 (time of Site fire).

4.3.3 SAN BERNARDINO COUNTY FIRE DEPARTMENT, HAZARDOUS MATERIALS DIVISION

1. The San Bernardino County Hazardous Materials Division was contacted regarding records for the Site address. The Hazardous Materials Division is the local agency regulating UST operations and hazardous material generation and handling. The Hazardous Materials division responded with a letter stating that no records were on file for the site. The letter response from the Hazardous Materials Division is included in Appendix D.

4.4 STATE AGENCY RECORDS

4.4.1 CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

1. The Lahontan RWQCB was contacted regarding records or files for the Site addresses and parcel number. The RWQCB reported there were no files for the Site. The state GeoTracker database was also reviewed, and records for the Site address were not identified. The letter response from Lahontan RWQCB office is included in Appendix D.

4.4.2 CALIFORNIA EPA - DEPARTMENT OF TOXIC SUBSTANCES CONTROL

1. The California EPA - DTSC was contacted regarding records or files for the Site addresses and parcel numbers. No records for the Site were identified by the DTSC Chatsworth office. No record was returned at the time of report for the DTSC Cypress offices. The letter response from Chatsworth office is included in Appendix D.

4.5 HISTORICAL USE SUMMARY

1. The historical records indicate the Site was undeveloped until 1989 when a dwelling was built in the northern section of the Site. Between 1994 and 2005, the additional wooden structures and sheds were built to house horses and dogs (kennel). In January of 2013, the dwelling was destroyed by a fire. The owner reports the property has not been occupied or utilized since 2013.

5.0 SITE INSPECTION

1. A Site inspection was conducted by TRC staff on October 18, 2018. Photographs taken during the Site inspection are included in the Photo Log and a site plan is shown on Figure 2.

5.1 OBSERVATIONS

1. As shown on Figure 2, the Site is a vacant lot, with approximately 0.50 mile of frontage along West Main Street. A summary of observations is provided below.
    - The Site is unpaved. The burned remains of a residence and several small abandoned wood structures are located in the northern part of the Site. The southern part of the site is vacant. See Photos 1 - 10.
        - Burned remains and debris associated with the former residence (Photos 3 and 4).
        - Two structures are remains of wooden sheds that appear to have been utilized for storage (Photos 5 - 7).
        - One structure is a former kennel used by the current owner for breeding dogs. The kennel is partially below grade (Photos 9 and 10).
    - A water well is located adjacent to the burned residence (Photos 11 and 12). The top of the steel well casing is open (no cap) and a concrete block was placed on top of the well casing. The well was gauged and ground water was approximately 41 feet below grade in the well casing. A water sample was collected and analyzed. Additional information and analytical results are presented in Section 6.0.
    - A significant amount of trash and debris were observed on the surface throughout the northern part of the site, mostly in the northwest corner of the property. Some of the trash and debris had been burned. The debris included, tires, cans, wood, piping, cloth, and other miscellaneous items (Photos 13 and 14). A fiberglass tank was also on the surface among the debris. The end of the tank was open, and the tank was empty. The tank may have been associated with the water well on the property (Photos 15 and 16).
    - Remnants of aboveground irrigation pipes were observed throughout the central part of the property indicating former agricultural activities. The pipes west of the dwelling were approximately 6 feet in height and in a gridded pattern. The pipes to the west of the dwelling were 2- to 3-feet above grade (Photos 17 - 19).
    - A partially full, steel, 55-gallon drum was observed in the western part of the site; and dark, oily staining was observed on the ground surface near the drum (Photos 20 and 21). A soil boring (B-1) was drilled in the surface staining to evaluate the vertical limits of the stained soil. The results are discussed in Section 6.0.

- Empty drums were observed scattered around the site (Photos 22 and 23).
- Oily surface staining was observed near some bushes on the east side of the burned residence. A 5-gallon water jug containing oily liquid was located in the stained area (see Photos 24 and 25). A soil boring (B-2) was drilled in the surface staining to evaluate the vertical limits of the stained soil. The results are discussed in Section 6.0.
- Approximately ten 1-gallon plastic containers containing oily liquid (possibly waste oil) were located near some bushes along the western boundary of the site near West Main Street. Some oily surface staining was observed on the ground surface around the containers. The containers were blue in color and the labels were weathered and unreadable, but the containers appeared to possibly have been for motor oil or transmission fluid (see Photos 26 – 27). A soil boring (B-3) was drilled in the surface staining to type of spill and evaluate the vertical limits of the stained soil. The results are discussed in Section 6.0.
- Two types of imported crushed rock were observed in the southern part of the site (Photos 28 and 29).
- Drainage pipe and runoff ran through the southern portion of the Site under BNSF tracks (Photos 30 and 31).
- Underground fiber optic cables run along the eastern boundary of the Site (Photos 32 and 33).

5.2 USE OF HAZARDOUS MATERIALS

1. One 55-gallon drum and several smaller plastic containers of oily liquid are located on the property. It is possible the drum and containers of oily liquids have been illegally disposed or dumped on the property.

    - One 55-gallon steel drum with bungs closed and no labels was present. Upon peripheral assessment, the drum was not empty and had unknown contents. A soil boring was completed adjacent to the drum where previous staining was apparent.

    - One 5-gallon water jug with residual dark contents with surrounding surface staining was noted. The material seems to have spilled onto the surface as the jug was near empty. A soil boring was completed within the surface stained area.

    - Ten 1-gallon containers with oily liquid were present and surface staining was identified during inspection.

2. Oily surface staining was observed at two locations indicating contents of the drums or containers had been spilled on the surface. Soil borings were drilled in these two areas and samples collected and analyzed to evaluate vertical extent of the staining. The results are presented in Section 6.0.

5.3 UNDERGROUND STORAGE TANKS

1. Evidence or indications for the presence of USTs were not observed. No historical information was identified relating to the presence of previous USTs during the course of this site assessment.

5.4 ABOVEGROUND STORAGE TANKS

1. There are no active ASTs present at the Site. No historical information was found relating to the presence of previous ASTs at the Site.

5.5 CLARIFIER/SKIMMER

1. No clarifiers or skimmers were observed at the Site. No historical information was found to indicate the historic presence of clarifiers or skimmers at the Site.

5.6 SEPTIC TANKS

1. No permits to install, inspect, or remove septic systems were identified in the County files for this address. However, since a residence has been located on this parcel since at least 1993, it is possible that an unpermitted septic system may have been installed at this site.

5.7 WASTE MANAGEMENT AND DISPOSAL

1. The Site is vacant, and no wastes are currently generated at the Site. However, a significant amount of dumping has occurred on the property, particularly in the north end of the property. Some of the trash and debris had been burned. The debris included, tires, cans, wood, piping, cloth, and other miscellaneous items (Photos 13 and 14). A fiberglass tank was also on the surface among the debris. The end of the tank was open, and the tank was empty. The tank may have been associated with the water well on the property (Photos 15 and 16). A partially full 55-gallon drum and several plastic 1-gallon sized containers also appear to have been dumped on the property (see Photos 26 - 27).

5.8 POLYCHLORINATED BIPHENYLS

1. The use or storage of potentially PCB-containing materials was not observed. Additionally, pole-mounted electrical transformers which could potentially contain PCB-containing oil were not observed at the Site.

5.9 ONSITE WATER WELL

1. One water well is located on the property. There was no cap on the well and top of the well casing was open.

    - A permit on file with County of San Bernardino indicated the well was installed in 1989 for water supply for the residence. The permit indicates the well is 12-inch steel casing, and total depth of the well is 132 feet below grade.

- The well was gauged and sampled as part of this Phase I investigation.
  - Depth to water gauged at approximately 41 feet below grade on October 30, 2018.
  - The analysis results for the water sample are summarized in Section 6.2 below and indicate that organic constituents were not detected in the water sample. However, dissolved arsenic was detected at 13.5 micrograms per liter (µg/L), exceeding the MCL of 10 µg/L. The origin of the arsenic may be due to natural background conditions in this area.

5.10 RADON

1. The Geocheck® database indicates the Site is located within Federal EPA Radon Zone 2, with a predicted average radon concentration between 2.0 picoCuries per liter (pCi/L) and 4.0 pCi/L (see Appendix B, Page A-37). The report indicates that one site was tested and the average radon activity was 0.800 pCi/L. EPA has set a standard of 4.0 pCi/L as the concentration of radon at which corrective action is recommended.

6.0 SAMPLING AND ANALYSES

6.1 SOIL BORINGS AND SAMPLING

1. Three soil borings (B-1, B-2, and B-3) were completed on October 30, 2018, one boring in each location where surface staining was identified during site inspections. Figure 11 shows the boring locations. The boring locations are shown in Photos 21, 25, and 26.

    - Boring B-1: Surface staining near 55-gallon drum near western site boundary. Dimensions of surface stain were approximately 12-feet long by 6-feet wide. See Figure 11 and Photo 21.
    - Boring B-2: Surface staining near 5-gallon jug containing oil near brush on west side of burned-out residence. Dimensions of surface stain were approximately 8 feet long by 4-feet wide. See Figure 11 and Photo 25.
    - Boring B-3: Surface staining near several blue containers which appeared to contain waste oil. Dimensions of surface stain were approximately 5 feet long by 3 feet wide. See Figure 11 and Photo 26.

2. The soil borings were completed using a truck-mounted direct-push Geoprobe rig. Continuous soil samples were collected in an acetate sleeve from the surface to total depth. Discrete soil samples were collected at the surface and at 5-foot intervals in each boring.

3. The discrete samples were sealed, labeled, and placed in an iced cooler delivered under Chain-of-Custody to a state-certified laboratory. The soil lithology and observations were recorded and logged on boring logs in Appendix F. The samples were collected in laboratory-supplied sample containers and analyzed at a state-certified laboratory for the following:

    - Total petroleum hydrocarbons (TPH) by EPA Method 8015 as:
        - Gasoline range hydrocarbons (GRO) C_5-C_{12}.
        - Diesel range hydrocarbons (DRO) C_{12}-C_{22}.
        - Oil range hydrocarbons (ORO) C_{22}-C_{40}.
    - Volatile Organic Compounds (VOCs) by EPA Method 8260B.
    - Semi-volatile organic compounds (SVOCs) by EPA Method 8270C.
    - Metals by EPA Method 6010B.
    - PCBs/ Pesticides by EPA Methods 8081/8082.

4. The results are summarized in Tables 1, 2, and 3. The laboratory report is included in Appendix E.

5. Key results are summarized below:

    - The vertical limits of oil staining appears to be approximately 5 feet in all three borings. In Boring B-3, the TPH impacts may extend below 5 feet. Staining, odors, PID readings, or other field observations indicating the presence of contamination were not observed during sampling in B-3.
    - Total metals appear to be at background levels. Further testing for soluble metals is not necessary (typically, soluble metal testing is conducted for waste classification if the total concentration of an individual metal exceeds

10 times the respective soluble limit threshold concentration (STLC) for that metal. However, none of the individual total metal concentrations exceeded 10 times its STLC).

- PCBs and Pesticides were not detected in any of the samples.
- Two VOCs, methylene chloride and toluene, were detected in all of the samples at very low levels (ranging from 0.00589 to 0.254 milligrams per kilogram [mg/kg]). However, methylene chloride was also reported in the method blank for some of the samples indicating the presence of these two VOCs in the results may be due to a laboratory QA issue. Low levels of 1,2,4-trimethylbenzene and xylenes were detected in the samples from Boring B-1 (surface, 5 foot, and 10 foot), but were not detected in the 15 or 20 foot samples.
- Low levels of SVOCs were detected in three samples:
  - Boring B-2 Surface sample: Benzo(g,h,i)perylene (0.148 mg/kg), Chrysene (0.137 mg/kg), Fluoranthene (0.187 mg/kg), and Pyrene (0.28 mg/kg).
  - Boring B-2 at 5-feet bgs: Fluoranthene (0.00745 mg/kg), and Pyrene (0.0157 mg/kg).
  - Boring B-3 at 5-feet bgs: Fluoranthene (0.00978 mg/kg), and Pyrene (0.0495 mg/kg).
- There are no federal or State cleanup levels for the SVOCs identified above (Benzo(g,h,i)perylene, Chysene, Fluoranthene, Pyrene) since the toxicity of these four constituents is very low. As a result, local regulators would typically default to the Environmental Screening Levels (ESLs) published by the California Regional Water Quality Control Board-San Francisco Region (RWQCB-SF) and/or the EPA Region IX Regional Screening Levels (RSLs). The RSLs and ESLs include four different risk categories, the most applicable would be the Direct Exposure to Human Health for Commercial Shallow Soil scenario. Comparison of the maximum level detected in the samples to the RSL and ESL for Commercial Shallow Soil is shown below and indicates that the maximum levels detected in the soil are protective of residential human health.

Analyte	Maximum Detected (mg/kg)	EPA Region IX RSL Commercial	ESL RWQCB Direct Exposure Commercial
Benzo (g,h,i) perylene	0.148	NA	NA
Chrysene	0.137	2,100	450
Fluoranthene	0.187	30,000	NA
Pyrene	0.28	23,000	NA

6.2 WATER WELL SAMPLING

1. A water sample was collected from the onsite water well on October 30, 2018 and shipped to a state-certified laboratory for analysis for:
    - Total metals by EPA Method 6010B/6020.
    - Pesticides by EPA Method 8041.
    - Volatile organic compounds (VOCs) by EPA Method 8260B.
    - Semi-volatile organic compounds (SVOCs) by EPA Method 8270C.

2. A second sample was collected on November 27, 2018 for analysis for Dissolved Metals.

3. Both samples were collected using a new disposal bailer through the open steel casing, then transferred into laboratory-supplied sample containers. The sample containers were labeled and packed in an iced cooler and shipped under chain of custody to a state-certified laboratory for analyses.

4. The results are summarized in Table 4. The laboratory analysis reports are included in Appendix E.

5. Pesticides, VOCs, and SVOCs were not detected.

6. Dissolved arsenic and barium were detected in the sample for dissolved metals. Arsenic was detected at 13.5 micrograms per liter (µg/L) slightly above the Maximum Contaminant Level (MCL) of 10 µg/L for drinking water.

7.0 CONCLUSIONS AND RECOMMENDATIONS

1. TRC completed this Phase I ESA in general accordance with ASTM Standard E1527-13 guidelines for APN 0421-171-35 located at 21880 Main Street (National Trails Highway-Route 66), in Barstow, California. This Phase I report includes only the 17.45 acres that is between West Main Street and the BNSF right-of-way and includes a vacant lot with a remaining dwelling and structure foundation onsite.

2. Findings and conclusions relative to RECs at the Site are summarized below.

7.1 SUMMARY OF FINDINGS AND OPINIONS

- The Site is abandoned and was previously utilized by the current owner as a residential property from approximately 1989 to 2013. While living at the property, the current owner used the central part of the property for some limited agricultural activity for personal use, maintained horses, and operated a kennel for breeding dogs. Prior to 1989, the property was primarily undeveloped with some small areas used for private agricultural use.
- Previous industrial activities associated with the Site were not identified.
- The former residence was burned and completely destroyed by a fire in approximately 2013. The charred remains of the residence, foundation, and related debris are located at the property. Several small, wooden structures including a structure used as a kennel are still located at the property; however, the structures have been vandalized and damaged.
- An open water well is located on the property, on the northwest side of the abandoned residence. A permit for the well was located in the County files, and the permit indicates (1) the well was drilled and installed in 1989 for residential water supply; 2) the well is approximately 12 inches in diameter, and 3) was completed to 132 feet bgs. Depth to water was gauged at approximately 41 feet below grade during the site inspection on October 30, 2018.
    - A sample of the water in the well casing was collected and analyzed at a state-certified laboratory and VOCs, pesticides, and SVOCs were not detected.
    - Dissolved arsenic was detected at 13.5 µg/L, slightly above the federal and state MCL of 10 µg/L. Other metals were not detected at levels above an MCL.
    - The origin of the arsenic is likely due to natural background conditions for this area; however, the presence of dissolved arsenic in the groundwater at concentrations above the MCL would be identified as a REC.

- Trash and debris have been dumped on the surface of the Site, primarily in the north end of the property. Some of the trash has been burned. The debris includes household trash, tires, glass, concrete, brick, wood, cans, PVC piping, cloth, a fiberglass tank, and other miscellaneous debris.
- Three oily surface stains were observed on the property and were further investigated by drilling a soil boring in each stain. The largest stain was approximately 12 feet long and 6 feet wide and appeared to be the result of spills or leaks from a 55-gallon drum adjacent to the stain. The other two stains were less than 10 feet long and appeared to be the result of surface dumping/disposal of several plastic containers that were located in the stained areas (5-gallon and 1-gallon size which contained oily liquid, probably waste oil). The results of the soil borings and laboratory analyses indicated:
  - The soil in each of the three locations was impacted with heavy petroleum, mostly in the C_{22} to C_{40} range, consistent with waste oil. Chlorinated solvents, PCBs, and pesticides were not detected.
  - Trace levels of four VOCs (methylene chloride, toluene, 1,2,4-trimethylbenzene and xylenes) were detected in several samples, and four PAHs (benzo(g,h,i)perylene, chrysene, fluoranthene, and pyrene) were also detected in samples from B-2 and B-3.
  - Field observations during the drilling indicated the visual staining was limited to a depth of 2 feet or less in each boring; however, the laboratory results indicated that the petroleum impacts extended to a depth of approximately 5 feet in borings B-1 and B-2, and may extend below 5-feet in Boring B-3.
- The presence of a partially full 55-gallon drum and several plastic jugs containing oily liquid, along with associated surface staining would be identified as a REC. However, since drilling and sampling investigations were conducted in the oily stained areas, and the analytical results indicate that priority pollutants were not detected, and the extent of the staining is limited (i.e., 12 feet by 6 feet), the oily staining would likely be considered a *de minimus* condition since it does not present a threat to human health or the environment and would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

7.2 PHASE I RECOGNIZED ENVIRONMENTAL CONDITIONS

1. Based on the ASTM definitions and professional standards, the following RECs were identified:
   - An open water well with 12-inch-diameter steel casing. Sample results indicate that organic contaminants were not detected in the water sample; however, dissolved arsenic was detected slightly above the federal and state MCL. The origin of the arsenic is likely due to natural background conditions for this area; however, a regulated constituent present in the groundwater at a level above a regulatory standard is required to be identified as an REC.

- Oily surface staining which appears to be associated with dumping or disposal related from a drum and several smaller plastic jugs containing what appears to be waste oil. However, since drilling and sampling investigations were conducted in the oily stained areas, and the analytical results indicate that priority pollutants were not detected, and the extent of the staining is limited (i.e., 12 feet by 6 feet), the oily staining would likely be considered a *de minimus* condition since it does not present a threat to human health or the environment and would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2. HRECs, or CRECs associated with the Site were not identified at this time.

7.3 RECOMMENDATIONS

1. The water well should be properly abandoned in accordance with San Bernardino County regulations. If the well is planned to be utilized at some time in the future, then a cap should be placed on the top of the well to prevent contaminants from entering the well casing from the surface.

2. The partially full drum and plastic jugs containing liquid should be removed and properly disposed.

3. A significant amount of trash and debris is located in the northern end of the property. The debris and trash should be removed and properly disposed. Fencing should be considered to prevent further illegal dumping or disposal on the property.

4. If during grading or redevelopment, evidence for further soil contamination is identified such as staining or odors, additional sampling should be conducted. Additionally, if a water line, or a septic system is identified, the septic system should be properly abandoned and soil sampling conducted to determine if contamination is present.

8.0 CERTIFICATION

1. TRC's project team for this Phase I ESA was Mr. Matthew R. Eaton, P.G., and Ms. Cassandra Fausel, both located in TRC's Irvine, California office.

2. Mr. Eaton is a California Professional Geologist with 32 years of environmental experience managing and conducting environmental projects for private industry. Mr. Eaton has conducted numerous Phase I, II, and III investigations, due diligence assessments, feasibility studies and remediation projects for commercial and industrial property with soil and groundwater impacted with petroleum fuels, chlorinated solvents, heavy metals, dioxins, PCBs, and semi-volatile hydrocarbons. Mr. Eaton is currently a Sr. Project Manager at TRC and manages numerous projects for several clients that involve Phase I, II, and III assessments, coordination with federal, state, and local agencies, and development and implementation of soil and groundwater remediation programs. Mr. Eaton has an M.S. degree in geology, and has been with TRC for 30 years.

3. Ms. Fausel has 3 years of environmental experience in the environmental consulting industry. Ms. Fausel has performed environmental site assessments and remedial activities at numerous sites in California including commercial, industrial, and residential facilities. Ms. Fausel is currently a Staff Environmental Scientist at TRC with a M.S. degree in environmental science.

   I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312.

   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 all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

January 8, 2019

Matthew R. Eaton, P.G.
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January 8, 2019

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TABLES

TABLE 1
TPH, PESTICIDES & PCBs
ELLIS RENO PROPERTY - 21880 WEST MAIN STREET
BARSTOW, CALIFORNIA

ANALYSIS	SAMPLE ID, DEPTH, and ANALYSIS RESULT (mg/kg)										
	B-1 Surface	B-1 5'	B-1 10'	B-1 15'	B-1 20'	B-2 Surface	B-2 5'	B-2 10'	B-2 15'	B-3 Surface	B-3 5'
TPH-EPA Method 8015											
TPH GRO C5 - C12	0.927	0.225	ND (0.126)	ND (0.124)	ND (0.158)	0.763	0.160	ND (0.158)	0.185	0.358	ND (0.102)
TPH DRO C12-C22	1,360	26.6	ND (4.05)	ND (4.94)	ND (4.63)	107	20.1	ND (4.22)	ND (4.04)	3,220	251
TPH ORO C22-C32	10,700	165	ND (4.05)	ND (4.94)	ND (4.63)	1,300	281	ND (4.22)	ND (4.04)	3,710	3,070
TPH ORO C32-C40	3,860	65.4	ND (4.05)	ND (4.94)	ND (4.63)	394	60.3	ND (4.22)	ND (4.04)	8,120	701
Pesticides - EPA Method 8081											
ALDRIN	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
ALPHA BHC	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
BETA BHC	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
DELTA BHC	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
GAMMA BHC	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
4,4-DDD	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
4,4-DDE	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
4,4-DDT	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
DIELDRIN	ND (0.00243)	ND (0.00223)	ND (0.00203)	ND (0.00247)	ND (0.00231)	ND (0.00200)	ND (0.00222)	ND (0.00211)	ND (0.00202)	ND (0.00204)	ND (0.00203)
ENDOSULFAN I	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
ENDOSULFAN II	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
ENDOSULFAN SULFATE	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
ENDRIN	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
ENDRIN ALDEHYDE	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
ENDRIN KETONE	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
HEPTACHLOR	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
HEPTACHLOR EPOXIDE	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
HEXACHLOROBENZENE	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
METHOXYCHLOR	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
CHLORDANE	ND (0.243)	ND (0.223)	ND (0.203)	ND (0.247)	ND (0.231)	ND (0.200)	ND (0.222)	ND (0.211)	ND (0.202)	ND (0.204)	ND (0.203)
TOXAPHENE	ND (0.487)	ND (0.445)	ND (0.405)	ND (0.494)	ND (0.463)	ND (0.401)	ND (0.444)	ND (0.422)	ND (0.404)	ND (0.408)	ND (0.407)
PCBs - EPA Method 8082											
PCB 1016	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)
PCB 1221	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)
PCB 1232	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)
PCB 1242	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)
PCB 1248	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)
PCB 1254	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)
PCB 1260	ND (0.0207)	ND (0.0189)	ND (0.0172)	ND (0.0210)	ND (0.0197)	ND (0.341)	ND (0.0189)	ND (0.0179)	ND (0.0172)	ND (0.0173)	ND (0.0173)

ND = Not detected above Reported Detection Limit shown in parentheses. mg/kg = milligrams per kilogram

TPH = Total Petroleum Hydrocarbons GRO = gasoline range organics DRO = diesel range organics ORO = oil range organics

Sample Date = 10/30/2018

TABLE 2
VOLATILE ORGANIC COMPOUNDS
ELLIS RENO PROPERTY - 21880 WEST MAIN STREET
BARSTOW, CALIFORNIA

VOCs- EPA METHOD 8260B	SAMPLE ID, DEPTH, and ANALYSIS RESULT (mg/kg)										
	B-1 Surface	B-1 5'	B-1 10'	B-1 15'	B-1 20'	B-2 Surface	B-2 5'	B-2 10'	B-2 15'	B-3 Surface	B-3 5'
ACETONE	ND (0.0304)	ND (0.0301)	ND (0.0393)	ND (0.0967)	ND (0.0607)	ND (0.0371)	ND (0.0577)	ND (0.0414)	ND (0.0391)	ND (0.0255)	ND (0.0285)
ACRYLONITRILE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
BENZENE	ND (0.00122)	ND (0.00120)	ND (0.00157)	ND (0.00387)	ND (0.00243)	ND (0.00148)	ND (0.00231)	ND (0.00166)	ND (0.00157)	ND (0.00102)	ND (0.00114)
BROMOBENZENE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
BROMODICHLOROMETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
BROMOFORM	ND (0.0304)	ND (0.0301)	ND (0.0393)	ND (0.0967)	ND (0.0607)	ND (0.0371)	ND (0.0577)	ND (0.0414)	ND (0.0391)	ND (0.0255)	ND (0.0285)
BROMOMETHANE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
N-BUTYLBENZENE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
SEC-BUTYLBENZENE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
TERT-BUTYLBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
CARBON TETRACHLORIDE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
CHLOROBENZENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
CHLORODIBROMOMETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
CHLOROETHANE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
CHLOROFORM	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
CHLOROMETHANE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
2-CHLOROTOLUENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
4-CHLOROTOLUENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.0304)	ND (0.0301)	ND (0.0393)	ND (0.0967)	ND (0.0607)	ND (0.0371)	ND (0.0577)	ND (0.0414)	ND (0.0391)	ND (0.0255)	ND (0.0285)
1,2-DIBROMOETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
DIBROMOMETHANE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,2-DICHLOROBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,3-DICHLOROBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,4-DICHLOROBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
DICHLORODIFLUOROMETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,1-DICHLOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,2-DICHLOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,1-DICHLOROETHENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
CIS-1,2-DICHLOROETHENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
TRANS-1,2-DICHLOROETHENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,2-DICHLOROPROPANE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,1-DICHLOROPROPENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,3-DICHLOROPROPANE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
CIS-1,3-DICHLOROPROPENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
TRANS-1,3-DICHLOROPROPENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
2,2-DICHLOROPROPANE	ND (0.00304) J4	ND (0.00301) J4	ND (0.00393) J4	ND (0.00967) J4	ND (0.00607) J4	ND (0.00371) J4	ND (0.00577) J4	ND (0.00414) J4	ND (0.00391) J4	ND (0.00255) J4	ND (0.00285) J4
DI-ISOPROPYL ETHER	ND (0.00122)	ND (0.00120)	ND (0.00157)	ND (0.00387)	ND (0.00243)	ND (0.00148)	ND (0.00231)	ND (0.00166)	ND (0.00157)	ND (0.00102)	ND (0.00114)

TABLE 2
VOLATILE ORGANIC COMPOUNDS
ELLIS RENO PROPERTY - 21880 WEST MAIN STREET
BARSTOW, CALIFORNIA

SAMPLE ID, DEPTH, and ANALYSIS RESULT (mg/kg)

VOCs- EPA METHOD 8260B	B-1 Surface	B-1 5'	B-1 10'	B-1 15'	B-1 20'	B-2 Surface	B-2 5'	B-2 10'	B-2 15'	B-3 Surface	B-3 5'
ETHYLBENZENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
HEXACHLORO-1,3-BUTADIENE	ND (0.0304)	ND (0.0301)	ND (0.0393)	ND (0.0967)	ND (0.0607)	ND (0.0371)	ND (0.0577)	ND (0.0414)	ND (0.0391)	ND (0.0255)	ND (0.0285)
ISOPROPYLBENZENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
P-ISOPROPYLTOLUENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
2-BUTANONE (MEK)	ND (0.0304)	ND (0.0301)	ND (0.0393)	ND (0.0967)	ND (0.0607)	ND (0.0371)	ND (0.0577)	ND (0.0414)	ND (0.0391)	ND (0.0255)	ND (0.0285)
METHYLENE CHLORIDE	0.0452	ND (0.0301)	ND (0.0393)	ND (0.0967)	0.245	0.0530 B	0.254	0.195	0.112	ND (0.0255)	0.0651
4-METHYL-2-PENTANONE (MIBK)	ND (0.0304)	ND (0.0301)	ND (0.0393)	ND (0.0967)	ND (0.0607)	ND (0.0371)	ND (0.0577)	ND (0.0414)	ND (0.0391)	ND (0.0255)	ND (0.0285)
METHYL TERT-BUTYL ETHER	ND (0.00122)	ND (0.00120)	ND (0.00157)	ND (0.00387)	ND (0.00243)	ND (0.00148)	ND (0.00231)	ND (0.00166)	ND (0.00157)	ND (0.00102)	ND (0.00114)
NAPHTHALENE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
N-PROPYLBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
STYRENE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
1,1,1,2-TETRACHLOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,1,2,2-TETRACHLOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,1,2-TRICHLOROTRIFLUOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
TETRACHLOROETHENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
TOLUENE	0.0239	0.00956	0.0173	0.0209	0.0669	0.0238	0.0722	0.0530	0.0400	0.00589	0.0182
1,2,3-TRICHLOROBENZENE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,2,4-TRICHLOROBENZENE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
1,1,1-TRICHLOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,1,2-TRICHLOROETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
TRICHLOROETHENE	ND (0.00122)	ND (0.00120)	ND (0.00157)	ND (0.00387)	ND (0.00243)	ND (0.00148)	ND (0.00231)	ND (0.00166)	ND (0.00157)	ND (0.00102)	ND (0.00114)
TRICHLOROFLUOROMETHANE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,2,3-TRICHLOROPROPANE	ND (0.0152)	ND (0.0150)	ND (0.0196)	ND (0.0483)	ND (0.0304)	ND (0.0185)	ND (0.0289)	ND (0.0207)	ND (0.0196)	ND (0.0127)	ND (0.0142)
1,2,4-TRIMETHYLBENZENE	0.00630	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
1,2,3-TRIMETHYLBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
VINYL CHLORIDE	ND (0.00304)	ND (0.00301)	ND (0.00393)	ND (0.00967)	ND (0.00607)	ND (0.00371)	ND (0.00577)	ND (0.00414)	ND (0.00391)	ND (0.00255)	ND (0.00285)
1,3,5-TRIMETHYLBENZENE	ND (0.00609)	ND (0.00601)	ND (0.00785)	ND (0.0193)	ND (0.0121)	ND (0.00742)	ND (0.0115)	ND (0.00828)	ND (0.00783)	ND (0.00510)	ND (0.00569)
XYLENES, TOTAL	0.0197	0.0103	0.0183	ND (0.0251)	ND (0.0158)	ND (0.00964)	ND (0.0150)	ND (0.0108)	ND (0.0102)	ND (0.00662)	ND (0.00740)

mg/kg = milligrams per kilogram
Sample Date = 10/30/2018

J4 = The associated batch QC was outside the established quality control range for accuracy.
B = The same analyte is found in the associated blank.

ND = Not detected above Reported Detection Limit shown in parentheses.

TABLE 3
METALS & PAHs
ELLIS RENO PROPERTY - 21880 WEST MAIN STREET
BARSTOW, CALIFORNIA

METALS and PAHs	SAMPLE ID, DEPTH, and ANALYSIS RESULT (mg/kg)										
	B-1 Surface	B-1 5'	B-1 10'	B-1 15'	B-1 20'	B-2 Surface	B-2 5'	B-2 10'	B-2 15'	B-3 Surface	B-3 5'
	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018	10/30/2018
Analyte	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifie	Result and Qualifier
TOTAL SOLIDS	82.1	89.8	98.7	81.0	86.5	99.8	90.1	94.8	99.0	98.1	98.4
Metals - EPA Method 6010											
ANTIMONY	ND (2.43)	ND (2.23)	ND (2.03)	ND (2.47)	ND (2.31)	ND (2.00)	ND (2.22)	ND (2.11)	ND (2.02)	ND (2.04)	ND (2.03)
ARSENIC	ND (2.43)	ND (2.23)	ND (2.03)	5.99	3.60	2.22	ND (2.22)	ND (2.11)	ND (2.02)	ND (2.04)	ND (2.03)
BARIUM	48.2	43.0	47.2	250	136	48.6	40.9	45.4	64.1	44.3	64.3
BERYLLIUM	ND (0.243)	ND (0.223)	0.266	1.26	1.16	0.232	ND (0.222)	ND (0.211)	0.246	0.244	0.287
CADMIUM	ND (0.609)	ND (0.557)	ND (0.507)	ND (0.618)	ND (0.578)	ND (0.501)	ND (0.555)	ND (0.528)	ND (0.505)	ND (0.510)	ND (0.508)
CHROMIUM	5.92	5.07	8.24	28.4	28.0	6.53	4.34	5.63	6.06	6.49	7.64
COBALT	3.25	3.93	6.08	17.5	15.6	3.33	3.24	2.76	4.56	3.48	4.65
COPPER	52.9	6.92	7.49	34.3	27.3	27.3	5.31	4.95	7.09	23.3	10.7
LEAD	20.6	3.41	5.33	15.2	15.8	7.89	3.28	3.46	3.74	7.87	4.83
MOLYBDENUM	3.66	ND (0.557)	ND (0.507)	0.744	ND (0.578)	1.83	ND (0.555)	0.622	ND (0.505)	3.72	0.589
NICKEL	4.65	4.51	5.67	26.4	22.7	4.92	3.77	3.40	5.51	5.11	6.37
SELENIUM	ND (2.43)	ND (2.23)	ND (2.03)	ND (2.47)	ND (2.31)	ND (2.00)	ND (2.22)	ND (2.11)	ND (2.02)	ND (2.04)	ND (2.03)
SILVER	ND (1.22)	ND (1.11)	ND (1.01)	ND (1.24)	ND (1.16)	ND (1.00)	ND (1.11)	ND (1.06)	ND (1.01)	ND (1.02)	ND (1.02)
THALLIUM	ND (2.43)	ND (2.23)	ND (2.03)	ND (2.47)	ND (2.31)	ND (2.00)	ND (2.22)	ND (2.11)	ND (2.02)	ND (2.04)	ND (2.03)
VANADIUM	18.9	20.1	47.5	68.9	61.8	18.6	18.4	13.6	23.6	19.3	25.4
ZINC	118	19.4	21.8	96.4	95.7	147	18.2	18.1	22.7	254	42.0
MERCURY	ND (0.0243)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.0204)	ND (0.0203)
PAHs - EPA Method 8270C SIM											
ANTHRACENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
ACENAPHTHENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.00601)	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
ACENAPHTHYLENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.00601)	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
BENZO(A)ANTHRACENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
BENZO(A)PYRENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.133)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.122)
BENZO(B)FLUORANTHENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.133)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.122)
BENZO(G,H,I)PERYLENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	0.148	ND (0.133)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.122)
BENZO(K)FLUORANTHENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.133)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.122)
CHRYSENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	0.137	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
DIBENZ(A,H)ANTHRACENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.133)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.122)
FLUORANTHENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	0.187	0.00745	ND (0.00633)	ND (0.00606)	ND (0.122)	0.00978
FLUORENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.00601)	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
INDENO(1,2,3-CD)PYRENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.133)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.122)
NAPHTHALENE	ND (0.487)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.408)	ND (0.0203)
PHENANTHRENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	ND (0.120)	ND (0.00666)	ND (0.00633)	ND (0.00606)	ND (0.122)	ND (0.00610)
PYRENE	ND (0.146)	ND (0.00668)	ND (0.00608)	ND (0.00741)	ND (0.00694)	0.280	0.0157	ND (0.00633)	ND (0.00606)	ND (0.122)	0.0495
1-METHYLNAPHTHALENE	ND (0.487)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.408)	ND (0.0203)
2-METHYLNAPHTHALENE	ND (0.487)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.408)	ND (0.0203)
2-CHLORONAPHTHALENE	ND (0.487)	ND (0.0223)	ND (0.0203)	ND (0.0247)	ND (0.0231)	ND (0.0200)	ND (0.0222)	ND (0.0211)	ND (0.0202)	ND (0.408)	ND (0.0203)

ND = Not detected above Reported Detection Limit shown in parentheses. mg/kg = milligrams per kilogram Sample Date = 10/30/2018

TABLE 4
GROUNDWATER ANALYSIS RESULTS
ELLIS RENO PROPERTY - 21880 WEST MAIN STREET
BARSTOW, CALIFORNIA

PARAMETER	Results (µg/L) Sample GW-1		
Metals - EPA 6020	Total Metals [1]	Dissolved Metals[2]	MCL (µg/L)
Antimony	ND (<2.00)	ND (<2.00)	6.0
Arsenic	**11.1**	**13.5**	10
Barium	30.1	19.2	1,000
Beryllium	ND (<2.00)	ND (<2.00)	4.0
Cadmium	ND (<1.00)	ND (<1.00)	5.0
Chromium	4.72	ND (<10.0)	50
Copper	ND (<5.00)	ND (<5.00)	1,000
Cobalt	ND (<2.00)	ND (<10.0)	--
Lead	43.6	ND (<2.00)	15
Molybdenum	ND (<5.00)	ND (<5.00)	--
Nickel	ND (<2.00)	ND (<2.00)	100
Selenium	ND (<2.00)	ND (<2.00)	50
Silver	ND (<2.00)	ND (<2.00)	--
Thallium	ND (<2.00)	ND (<2.00)	2.0
Vanadium	14.7	ND (<20.0)	50
Zinc	35.1	ND (<25.0)	5,000
Mercury	ND (<0.200)	ND (<0.200)	2.0
Pesticides - EPA 8141	All ND		--
VOCs - EPA 8260B	All ND		--
SVOCs - EPA 8270C	All ND		--

MCL = Maximum Contaminant Level for drinking water from CCR Title 22 or Federal Drinking water standards.

Notes:

1. Water sample was unfiltered and contained debris and suspended solids. Collected in acidified bottle.

2. Water sample was filtered and preserved at the laboratory.

SITE

0 1/4 1/2 3/4 1 MILE

SCALE 1" = 2,000'

QUADRANGLE LOCATION

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
1993 Hodge Quadrangle

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

TITLE:

SITE VICINTY MAP

R. Collins
C. Fausel
M. Eaton
October 2018

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-VM.dwg

FIGURE 1

8.5x11 --- ATTACHED XREFS: --- ATTACHED IMAGES:
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-VM.dwg --- PLOT DATE: October 24, 2018 - 1:34PM --- LAYOUT: 8.5x11

SITE

N

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1, year 2016.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

R. Collins
C. Fausel
M. Eaton
October 2018

TITLE:

SITE PLAN

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-SP.dwg

FIGURE 2

8.5x11 --- ATTACHED XREF'S: --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-SP.dwg --- PLOT DATE: October 24, 2018 - 1:34PM --- LAYOUT: 2016

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

R. Collins
C. Fausel
M. Eaton
October 2018

TITLE:

2016 AERIAL PHOTOGRAPH

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 3

8.5x11 --- ATTACHED XREF'S: --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:35PM --- LAYOUT: 2016

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

R. Collins
C. Fausel
M. Eaton
October 2018

TITLE:

2012 AERIAL PHOTOGRAPH

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 4

8.5x11 --- ATTACHED XREF'S: --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:35PM --- LAYOUT: 2012

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

TITLE:

2009 AERIAL PHOTOGRAPH

R. Collins
C. Fausel
M. Eaton
October 2018

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 5

8.5x11 --- ATTACHED XREF'S: --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:35PM --- LAYOUT: 2009

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

R. Collins
C. Fausel
M. Eaton
October 2018

TITLE:

2005 AERIAL PHOTOGRAPH

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 6

8.5x11 --- ATTACHED XREF'S: --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:36PM --- LAYOUT: 2005

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

TITLE:

1994 AERIAL PHOTOGRAPH

R. Collins
C. Fausel
M. Eaton
October 2018

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 7

8.5x11 --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:36PM --- LAYOUT: 1994

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

TITLE:

1984 AERIAL PHOTOGRAPH

R. Collins
C. Fausel
M. Eaton
October 2018

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 8

8.5x11 --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:36PM --- LAYOUT: 1984

N

LEGEND

Approximate Boundary

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

TITLE:

1972 AERIAL PHOTOGRAPH

R. Collins
C. Fausel
M. Eaton
October 2018

PROJ. NO.: 317656.0000.0000

FILE: BNSF-Ellis-Reno-Historic Photos.dwg

FIGURE 9

8.5x11 --- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg --- PLOT DATE: October 24, 2018 - 1:36PM --- LAYOUT: 1972

N

SOURCE: Historic Image Provided by EDR, Inquiry Number 5454406.1.

APPROXIMATE SCALE (FEET)

0 400 800

TRC
17911 Von Karman Avenue
Suite 400
Irvine, CA 92614
Phone: 949.727.9336

PROJECT:

BNSF - ELLIS RENO
21880 MAIN STREET
BARSTOW, CALIFORNIA

TITLE:

1953 AERIAL PHOTOGRAPH

DRAWN BY:	R. Collins
CHECKED BY:	C. Fausel
APPROVED BY:	M. Eaton
DATE:	October 2018
PROJ. NO.:	317656.0000.0000
FILE:	BNSF-Ellis-Reno-Historic Photos.dwg

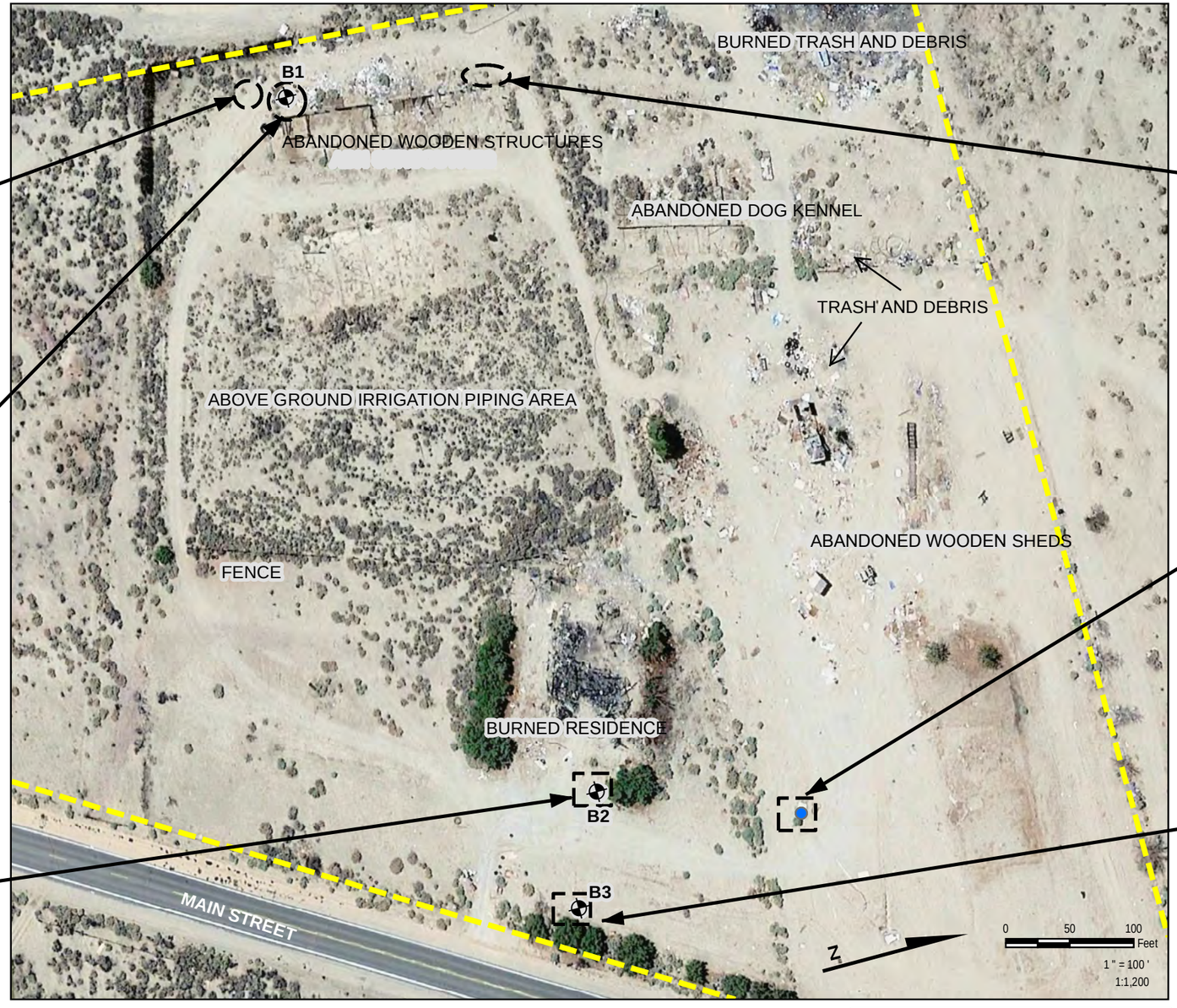
FIGURE 10

8.5x11 -- ATTACHED XREF'S: -- ATTACHED IMAGES: Ellis-Reno-Aerial-1953; Ellis-Reno-Aerial-1968; Ellis-Reno-Aerial-1972; Ellis-Reno-Aerial-1984; Ellis-Reno-Aerial-1994; Ellis-Reno-Aerial-2005; Ellis-Reno-Aerial-2009; Ellis-Reno-Aerial-2012; Ellis-Reno-Aerial-2016;
DRAWING NAME: L:\Graphics\ProjectsbyName\BNSF - Ellis Reno\317656.0000.0000\ BNSF-Ellis-Reno-Historic Photos.dwg -- PLOT DATE: October 24, 2018 - 1:36PM -- LAYOUT: 1953

Empty, 55-gallon plastic drum. No staining on ground identified.

Partially full, 55-gallon steel drum. Black staining was present on the drum, surrounding the drum, and adjacent area.

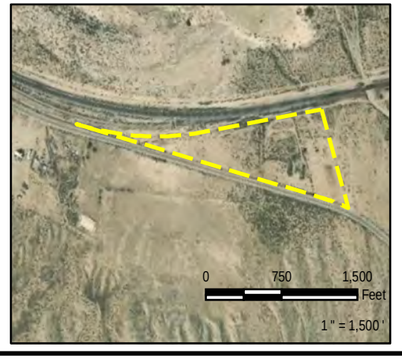
Residual remains within the 5-gallon container with only surface staining in the surrounding area.



Fiberglass tank among debris in north end of the property (see photo log).

Groundwater well with a cinder block on top of steel casing.The well was not sealed and the top of the casing was open.

Ten 1-gallon containers of waste oil found near the shrubbery.



LEGEND

- PROPERTY BOUNDARY
- AREAS OF CONCERN
- SOIL BORING (OCTOBER 2018)
- WATER SAMPLE / WELL LOCATION (OCTOBER & NOVEMBER 2018)

PROJECT:

BNSF - ELLIS RENO
PHASE I ESA

TITLE:

DETAILED SITE PLAN

DRAWN BY:	C. FAUSEL	PROJ. NO.:	
CHECKED BY:	C. FAUSEL		**FIGURE 11**
APPROVED BY:	M. EATON		
DATE:	DECEMBER 2018		

TRC

17911 Von Karman Avenue, Suite 400
Irvine, CA 92614
Phone: 949.727.9336
www.trcsolutions.com

FILE NO.: Ellis_Reno_DSP.mxd

Plot Date: 1/4/2019, 15:47:06 PM by CFAUSEL -- LAYOUT: ANSI B(11"x17")
Path: C:\Users\cfausel\Desktop\GIS\Barstow Phase Is\Ellis_Reno_DSP.mxd
Coordinate System: GCS WGS 1984 (Degree)
Map Rotation: -75
TRC - GIS

PHOTO LOG

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	21880 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 1: Looking west onto the Site's abandoned structures.

Photo 2: Looking west onto the Site at the northern property boundary.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 3: Burned dwelling in the northern portion of the Site.

Photo 4: Underground piping to the dwelling was observed.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 5: Abandoned remains of residential shed or storage area.

Photo 6: Abandoned remains of residential shed or storage area.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 7: Inside the abandoned shed.

Photo 8: Remains of an abandoned dog kennel .

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 9: Remains of an abandoned dog kennel, looking south.

Photo 10: Inside the entrance to the former kennel.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

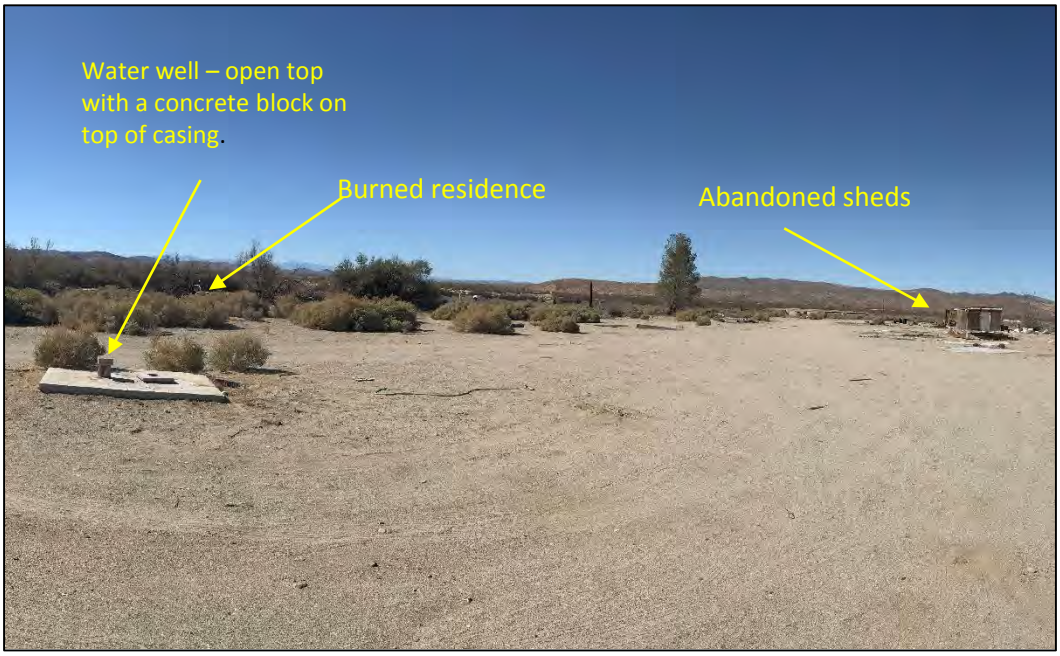


Photo 11: Inactive water well located on the north side of the burned residence. Photo looking southwest.

Photo 12: The well is inactive and covered by a cinder block.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 13: Location of trash and debris pile to empty AST and kennel.

Photo 14: Much of the pile was burned tires, cans, plastic, cloth, and wood.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 15: Fiberglass tank in the trash and debris in north end of the property.

Photo 16: Inside view of the fiberglass tank.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 17: Aboveground irrigation piping was present in the northwestern portion of the Site. The PVC pipe was covered by tires.

Photo 18: Irrigation piping throughout the central part of the Site.
The pipes stick up approximately 2 - 6 feet above grade.

Photo 19: Some of the irrigation pipes are protected by drums or by stacking tires over the pipe heads.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

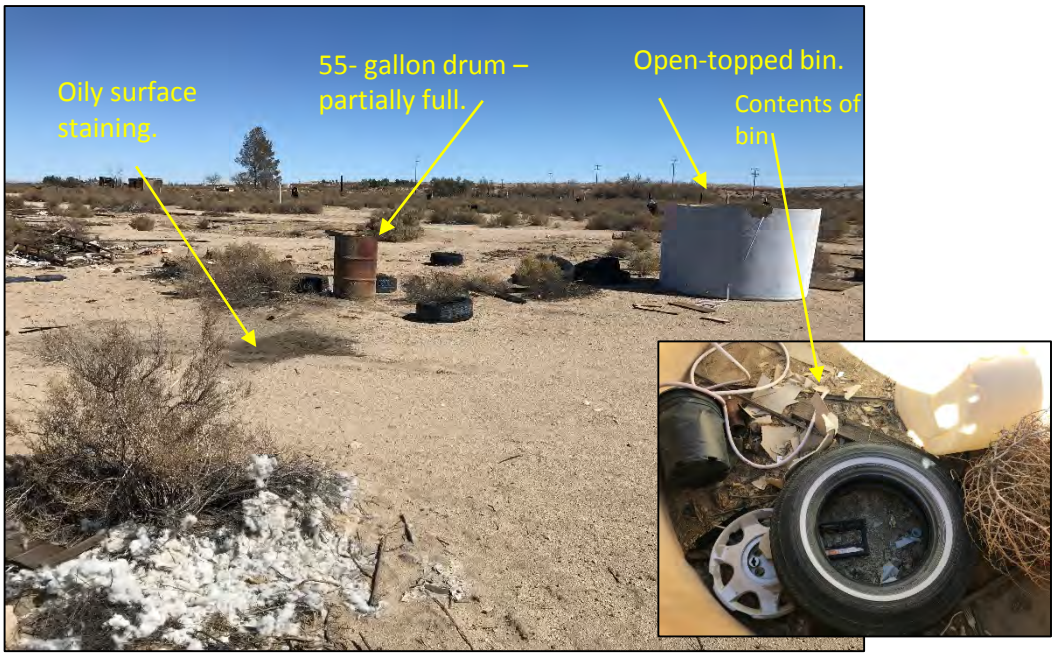


Photo 20: Surface staining near 55-gallon drum and debris, looking northeast.

Photo 21: 55-gallon drum and residual ground staining. Soil boring location was completed in November 2018.

.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 22: Empty plastic drum. No staining observed on surface.

Photo 23: Steel 55-gallon drum located in the brush. The drum appeared to be empty. No staining was observed surrounding the drum.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 24: Old 5-gallon water jug with unknown contents inside. The staining around the jug extended to the east-southeast.

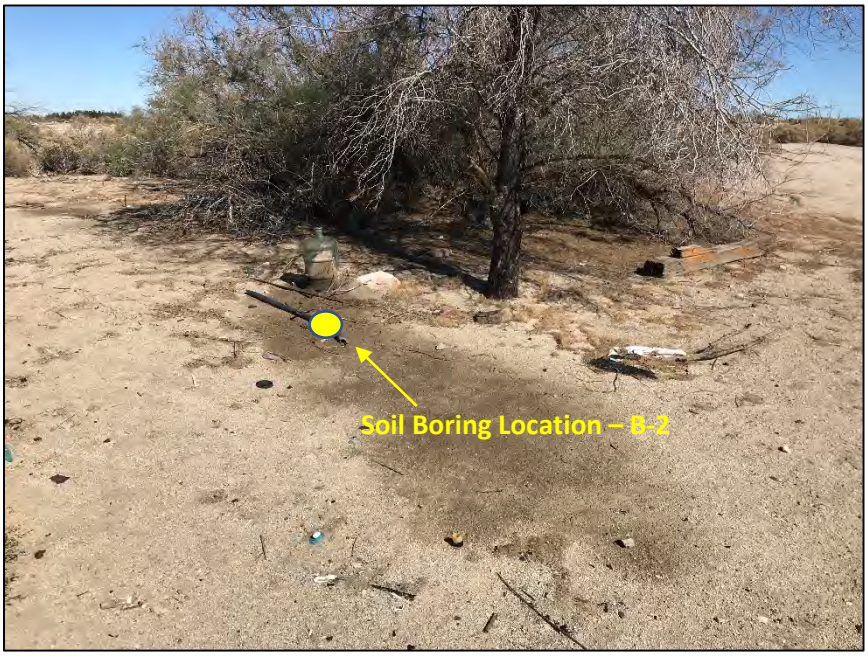


Photo 25: The extent of the surface staining was approximately 8-feet long.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 26: 1-gallon containers with oil staining surrounding the area. Most of the containers were full, and several containers were damaged and broken.

Photo 27: Labels were not legible, but may be motor oil or transmission fluid.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 28: Imported crushed rock, green color indicates it could be local serpentine.

Photo 29: Imported crushed rock, pink rhyolite in foreground and green rock in back.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

Photo 30: Draining piping along the eastern border within the southern section of the Site.

Photo 31: Off-site drainage along the western boundary of the Site.

PHOTO LOG

Client:	The BNSF Railway Co.	Site Address:	28810 West Main Street
Project:	Phase I Report	Location:	Barstow, California
Site Name:	Ellis Reno Parcel 0421-051-02	Date Taken:	October 19 & 30, 2018

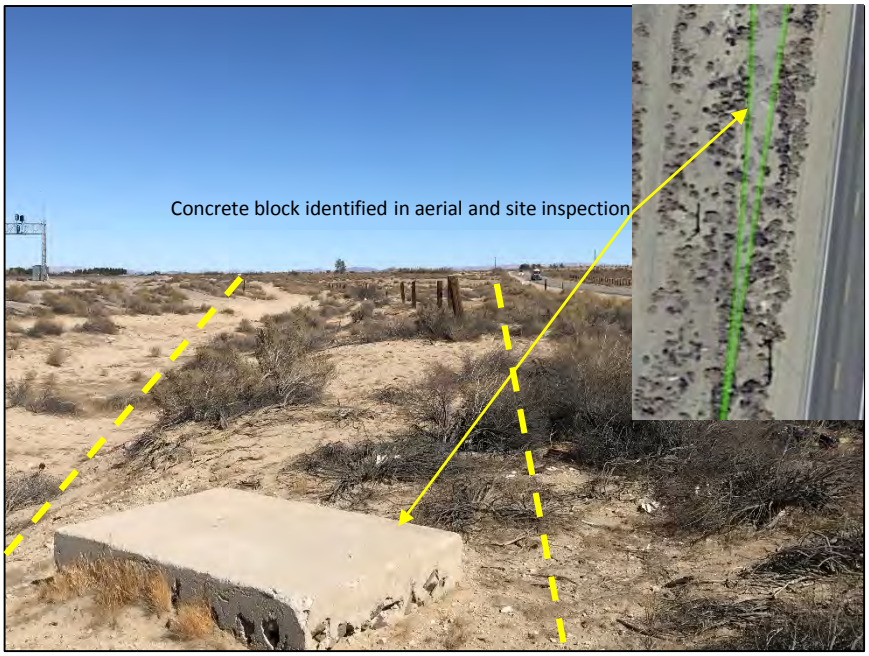


Photo 32: The southern end of the parcel with BNSF right-of-way to the west and West Main Street to the east, looking north.

Photo 33: Looking north along the eastern boundary at underground fiber optic cables.

APPENDIX A

PHASE I USER QUESTIONNAIRE
AND
COMPLETED QUESTIONNAIRE FROM OWNER

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE

Pursuant to the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13), in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

The "User" is defined in the ASTM E 1527-13 standard as *the party seeking to use Practice E 1527 to complete an environmental site assessment of the Site. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager*.

Thank you for taking the time to complete this questionnaire. If you have any questions, please call Matt Eaton at (949) 727-7395 or e-mail meaton@trcsolutions.com

Date: _____

User Name: Doug McReynolds

Company: BNSF

Address: 2500 Lou Menk Drive, Ft Worth, TX 76131

Telephone No.: 817-352-3613

E-mail Address: doug.mcreynolds@bnsf.com

Signature: _____

Site Name & Address: Parcel 0421-051-02
San Bernardino County, California

Purpose of ASTM Phase I (potential purchase, potential sale, re-finance, update the environmental condition of the Site, Lease termination or initiation, etc.)

(1.) **Environmental cleanup liens that are filed or recorded against the Site (40 CFR 312.25)**
Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the Site under federal, tribal, state or local law?

Yes ☐ **No** ☐

NOTE 1 — In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

(2.) **Activity and land use limitations (AULs) that are in place on the Site or that have been filed or recorded against the Site (40 CFR 312.26(a)(1)(v) and (vi))**

Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded against the Site under federal, tribal, state or local law?

Yes ☐ **No** ☐

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

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

Yes ☐ **No** ☐

(4.) **Relationship of the purchase price to the fair market value of the Site property (40 CFR 312.29)**

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

Yes ☐ **No** ☐

(5.) ***Commonly known* or *reasonably ascertainable* information regarding the Site property (40 CFR 312.30)**

Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,

(a.) Can you provide any information regarding the past uses of the Site?

(b.) Can you provide any information regarding specific chemicals that are present or once were present at the Site?

(c.) Can you provide any information regarding spills or other chemical releases that have occurred at the Site?

(d.) Can you provide any information regarding any environmental cleanups that have occurred at the Site?

Yes ☐ **No** ☐

(6.) **The degree of obviousness of the presence or likely presence of contamination at the Site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**
Based on your knowledge and experience related to the Site are there any obvious indicators that point to the presence or likely presence of releases at the Site?

Yes	No
☐	☐

(7.) **Proceedings Involving the Site**
Are you aware of**:** (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Site?

Yes	No
☐	☐

(8.) **Questions Regarding Helpful Documents**
Are you aware of the presence of any of the documents listed below and, if so, whether copies can and will be provided to TRC within reasonable time and cost constraints?

	Yes	No
- Environment site assessment reports	☐	☐
- Environment compliance audit reports	☐	☐
- Environmental permits (e.g., solid waste disposal permits; hazardous waste disposal permits; wastewater permits; National Pollutant Discharge Elimination System [NPDES] permits; or underground injection permits)	☐	☐
- Registrations for underground and aboveground storage tanks	☐	☐
- Registrations for underground injection systems	☐	☐
- Material Safety Data Sheets (MSDSs)	☐	☐
- Community Right-To-Know plan(s)	☐	☐
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,	☐	☐
- Reports regarding hydrogeologic conditions at the Site and surrounding area	☐	☐
- Notices or other correspondence from any government agency regarding current or previous violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site property	☐	☐
- Hazardous waste generator notices or reports	☐	☐
- Geotechnical studies	☐	☐
- Risk assessments	☐	☐
- Recorded AULs.	☐	☐

Phase I ESA Questionnaire

Name of preparer: Ellis E. Rand III

Site Address or APN: 11800 Mountain Vail Trail, Hwy., Banning, CA.

Name of property owner / representative and title: Ellis E. Rand III

Date property was purchased: 1987

How have you utilized the Property? Ag. Horses & Dogs		
What was the use of the Property by the previous owner? Farming - Pasture & Garden		
Do you have any knowledge of environmental issues at the site?	☐ Yes	☑ No
If yes please explain:		
Do you have knowledge of any environmental liens for the site?	☐ Yes	☑ No
If yes please explain:		
Do you have any past or current storage of hazardous materials at the site?	☐ Yes	☑ No
If yes please explain:		
Do you know of any current or past Underground Storage Tanks at the site?	☐ Yes	☑ No
If yes please explain:		
Do you know if any clarifiers have ever been present at the site?	☐ Yes	☑ No
If yes please explain:		
Do you know of any spills or cleanups at the site?	☐ Yes	☑ No
If yes please explain:		
Do you have any knowledge of previous environmental assessments conducted for the site?	☐ Yes	☑ No
If yes please explain:		

Site Reconnaissance – Onsite Water Well

1. Is there now or has there ever been a water well on the property? YES
   If so, when was it installed? 1987
   Are there any records for the Well, i.e., logs, permits, test results, etc. YES
2. How deep is the well? 180 FT.
3. Is it in use? NO
4. Has the water been tested and are the results available? NO

I certify that the above is complete to the best of my knowledge.

Signature of Preparer: Ellis E. Rand

Please complete and return to Cassie Fausell of IRC Solutions at cfausel@ircsolutions.com or fax to 949.707.7311.
Thank you.

APPENDIX B

EDR REPORTS

21880 MAIN ST

21880 MAIN ST

BARSTOW, CA 92311

Inquiry Number: 5454406.1

October 17, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

10/17/18

Site Name:

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311
EDR Inquiry # 5454406.1

Client Name:

TRC Environmental Consultants
17911 VON KARMAN AVE SUITE 400
IRVINE, CA 92614
Contact: Cassandra Fausel

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: May 29, 1994	USGS/DOQQ
1984	1"=500'	Flight Date: October 07, 1984	USDA
1972	1"=500'	Flight Date: August 20, 1972	USDA
1968	1"=500'	Flight Date: January 01, 1968	McDonnell Douglas
1953	1"=500'	Flight Date: January 15, 1953	USDA

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INQUIRY #: 5454406.1
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 5454406.1
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 5454406.1
YEAR: 2009
= 500'
EDR

INQUIRY #: 5454406.1
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 5454406.1
YEAR: 1994
YEAR:
= 500'
N
EDR

INQUIRY #: 5454406.1
YEAR: 1984
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EDR

INQUIRY #: 5454406.1
YEAR: 1972
= 500'
N
EDR

INQUIRY #: 5454406.1

YEAR: 1968

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 5454406.1
YEAR: 1953
YEAR:
= 500'
N
EDR

21880 MAIN ST

21880 MAIN ST

BARSTOW, CA 92311

Inquiry Number: 5451720.3

October 11, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/11/18

Site Name:	Client Name:
21880 MAIN ST	TRC Environmental Consultants
21880 MAIN ST	17911 VON KARMAN AVE SUITE 400
BARSTOW, CA 92311	IRVINE, CA 92614
EDR Inquiry # 5451720.3	Contact: Cassandra Fausel

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by TRC Environmental Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 41D9-4BC1-923A

PO # 317656.0000.0000

Project Ellis Reno Report

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 41D9-4BC1-923A

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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D[illegible] r[illegible] r[illegible]d[illegible]r[illegible]d[illegible] r[illegible]N[illegible]

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21880 MAIN ST

21880 MAIN ST

BARSTOW, CA 92311

Inquiry Number: 5451720.4

October 11, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/11/18

Site Name:	Client Name:
21880 MAIN ST	TRC Environmental Consultants
21880 MAIN ST	17911 VON KARMAN AVE SUITE 400
BARSTOW, CA 92311	IRVINE, CA 92614
EDR Inquiry # 5451720.4	Contact: Cassandra Fausel

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by TRC Environmental Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	317656.0000.0000	**Latitude:**	34.827306 34° 49' 38" North
Project:	Ellis Reno Report	**Longitude:**	-117.185528 -117° 11' 8" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	483034.76
		UTM Y Meters:	3853907.92
		Elevation:	2295.00' above sea level

Maps Provided:

2012
1993
1984
1971
1956
1934
1932

D□□□□□ □r□□□ □□□r□□□□□d□□r□d□□ □r□N□□□□

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

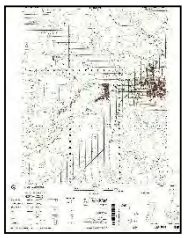
2012 Source Sheets

Hodge
2012
7.5-minute, 24000

1993 Source Sheets

Hodge
1993
7.5-minute, 24000
Aerial Photo Revised 1989

1984 Source Sheets



BARSTOW
1984
15-minute, 50000

1971 Source Sheets

Hodge
1971
7.5-minute, 24000
Aerial Photo Revised 1970

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1956 Source Sheets

Barstow
1956
15-minute, 62500
Aerial Photo Revised 1952

1934 Source Sheets

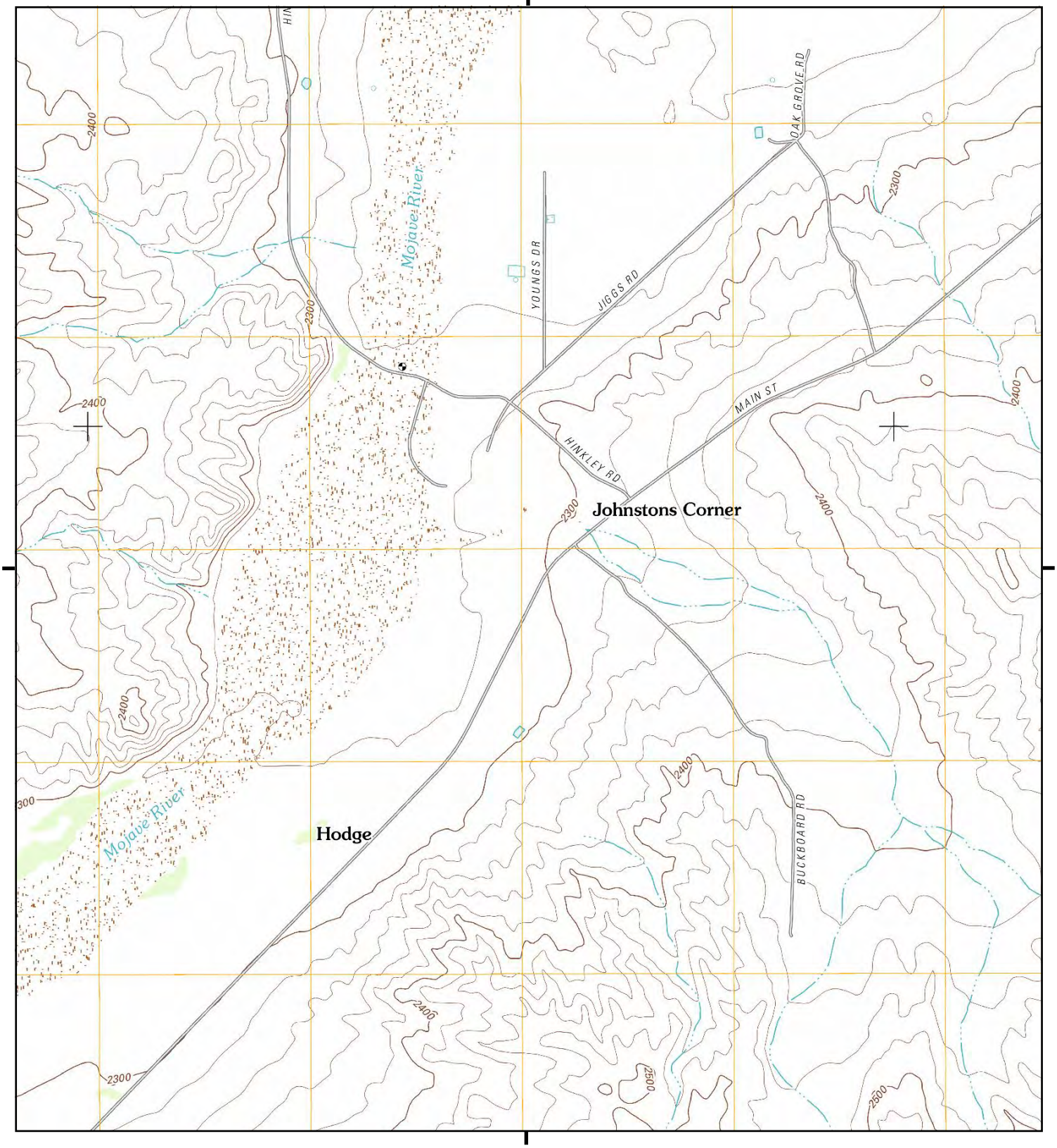
Barstow
1934
30-minute, 125000

1932 Source Sheets

Barstow
1932
30-minute, 125000

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

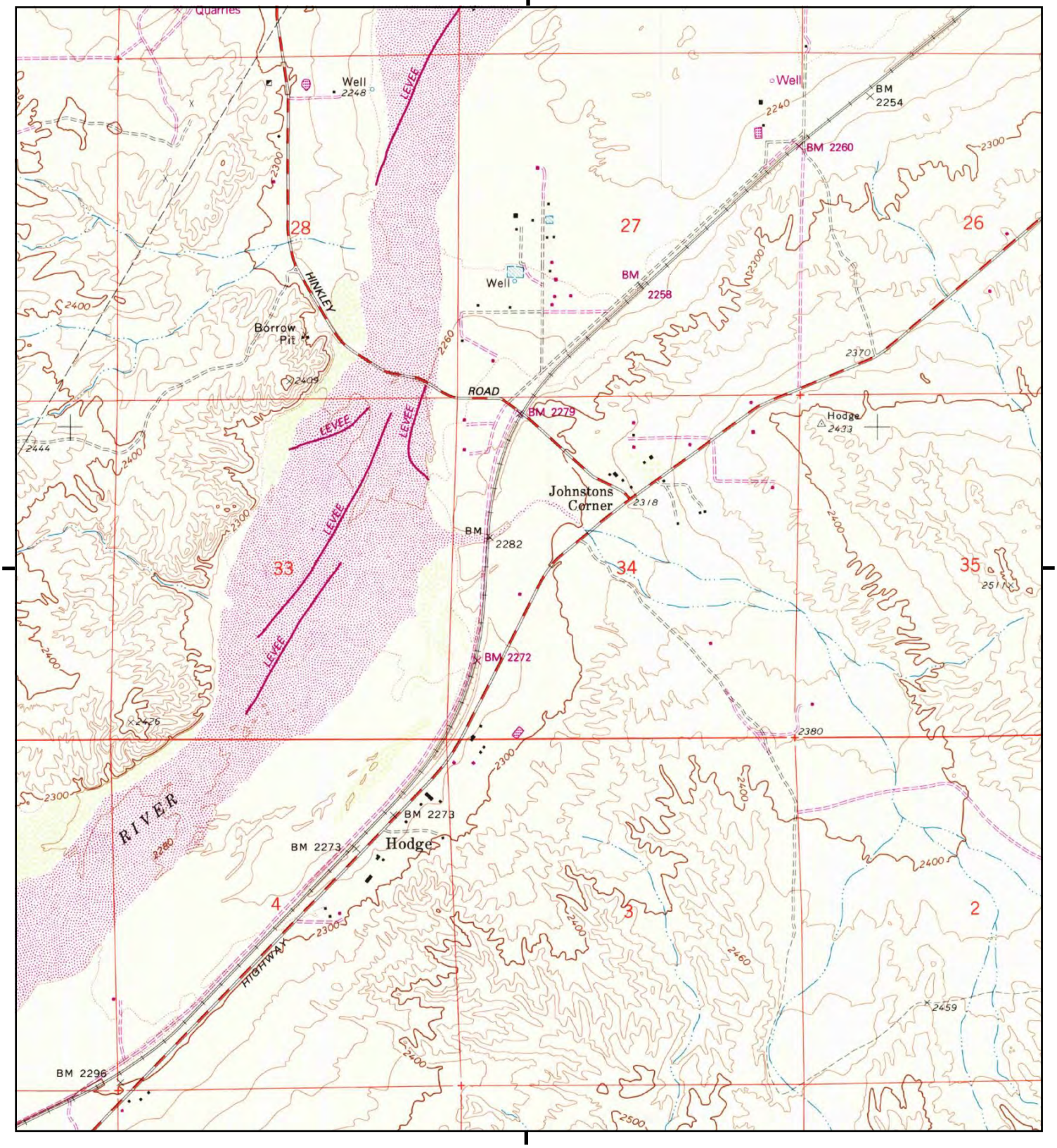
TP, Hodge, 2012, 7.5-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

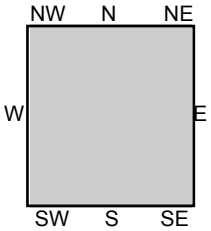
Historical Topo Map

1993



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



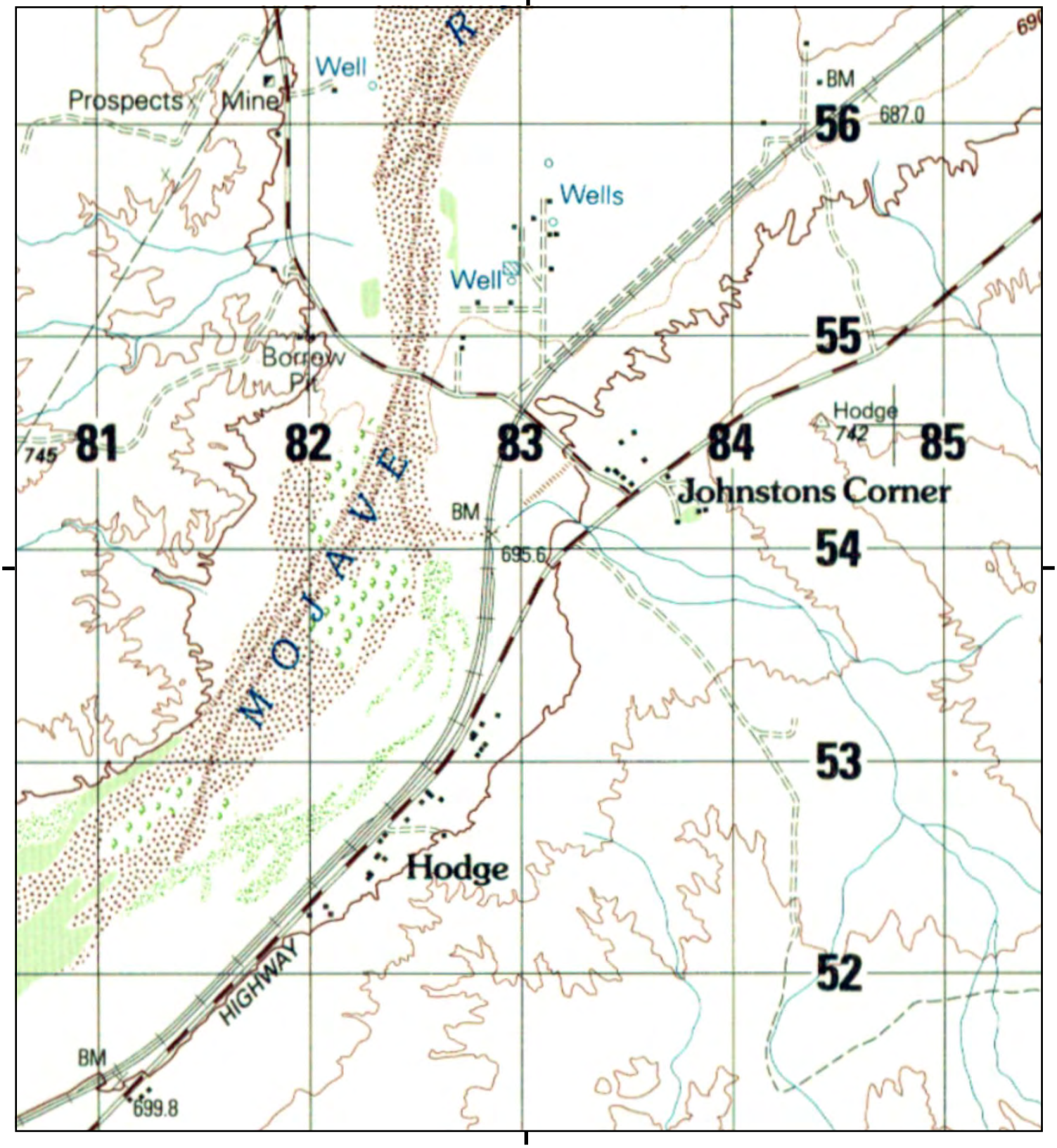
TP, Hodge, 1993, 7.5-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1984



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

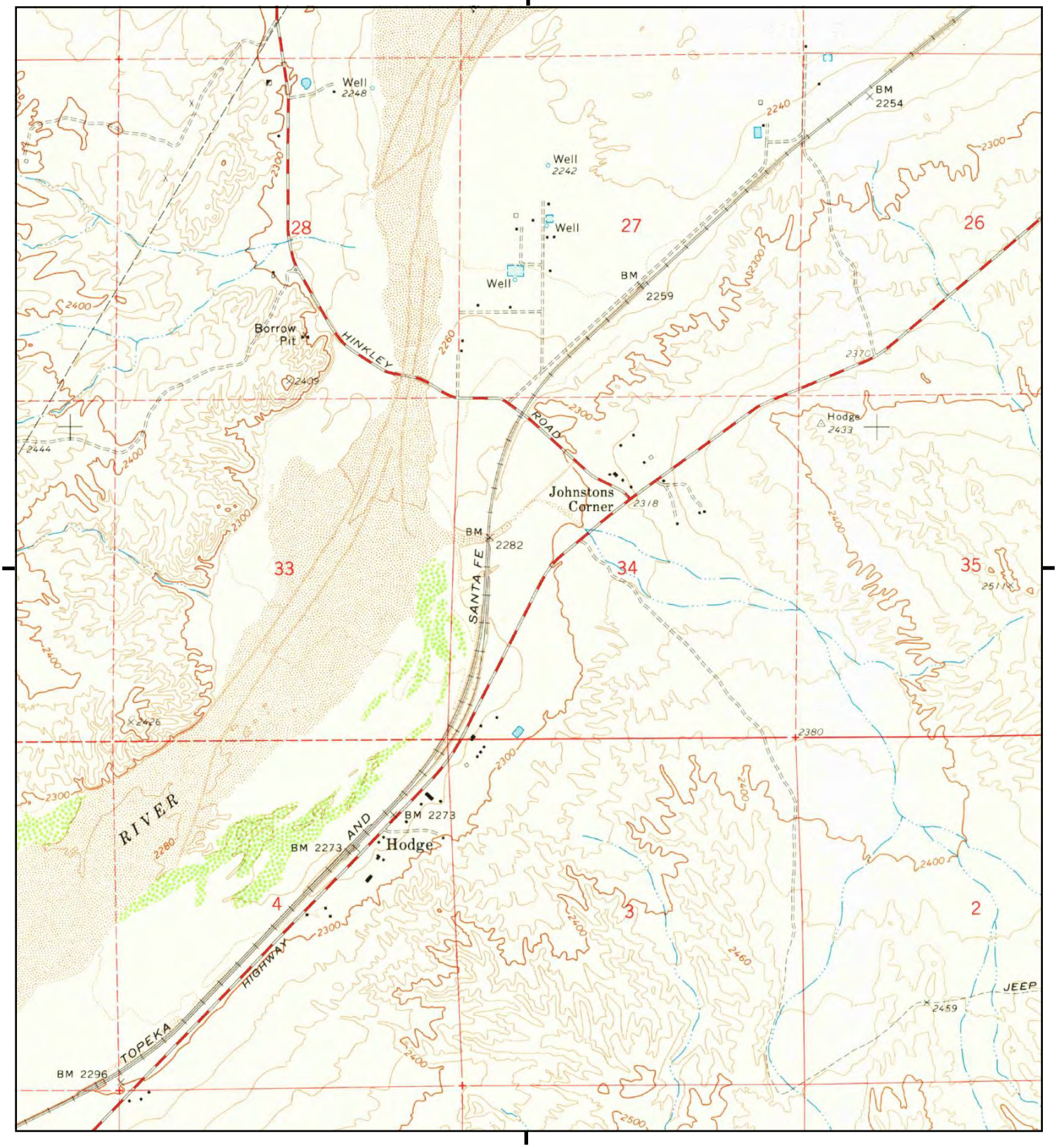
TP, BARSTOW, 1984, 15-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

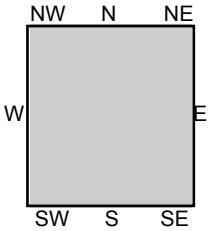
Historical Topo Map

1971



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



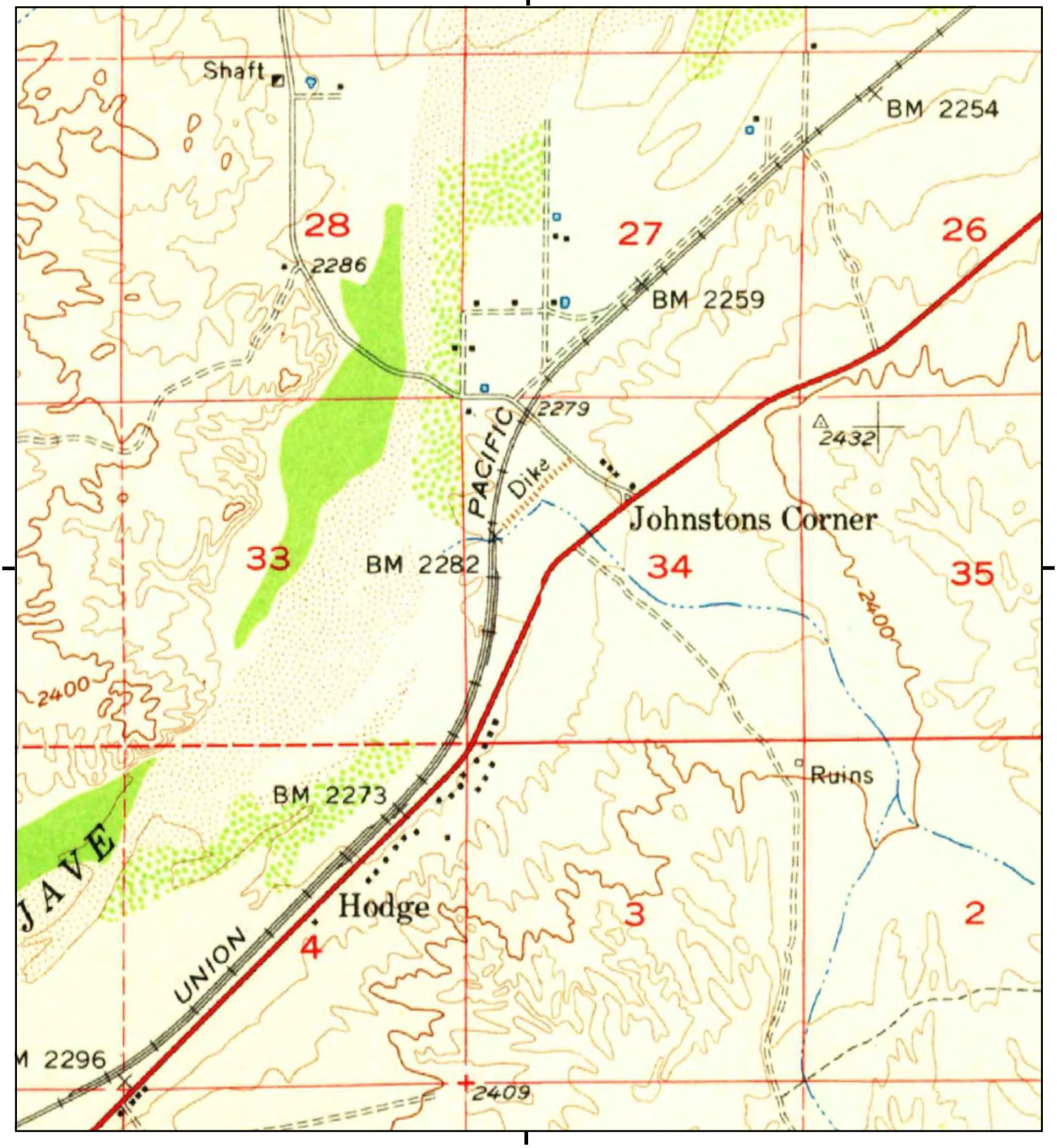
TP, Hodge, 1971, 7.5-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

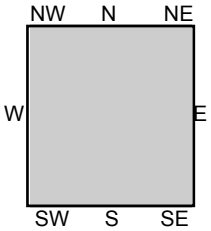
Historical Topo Map

1956



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



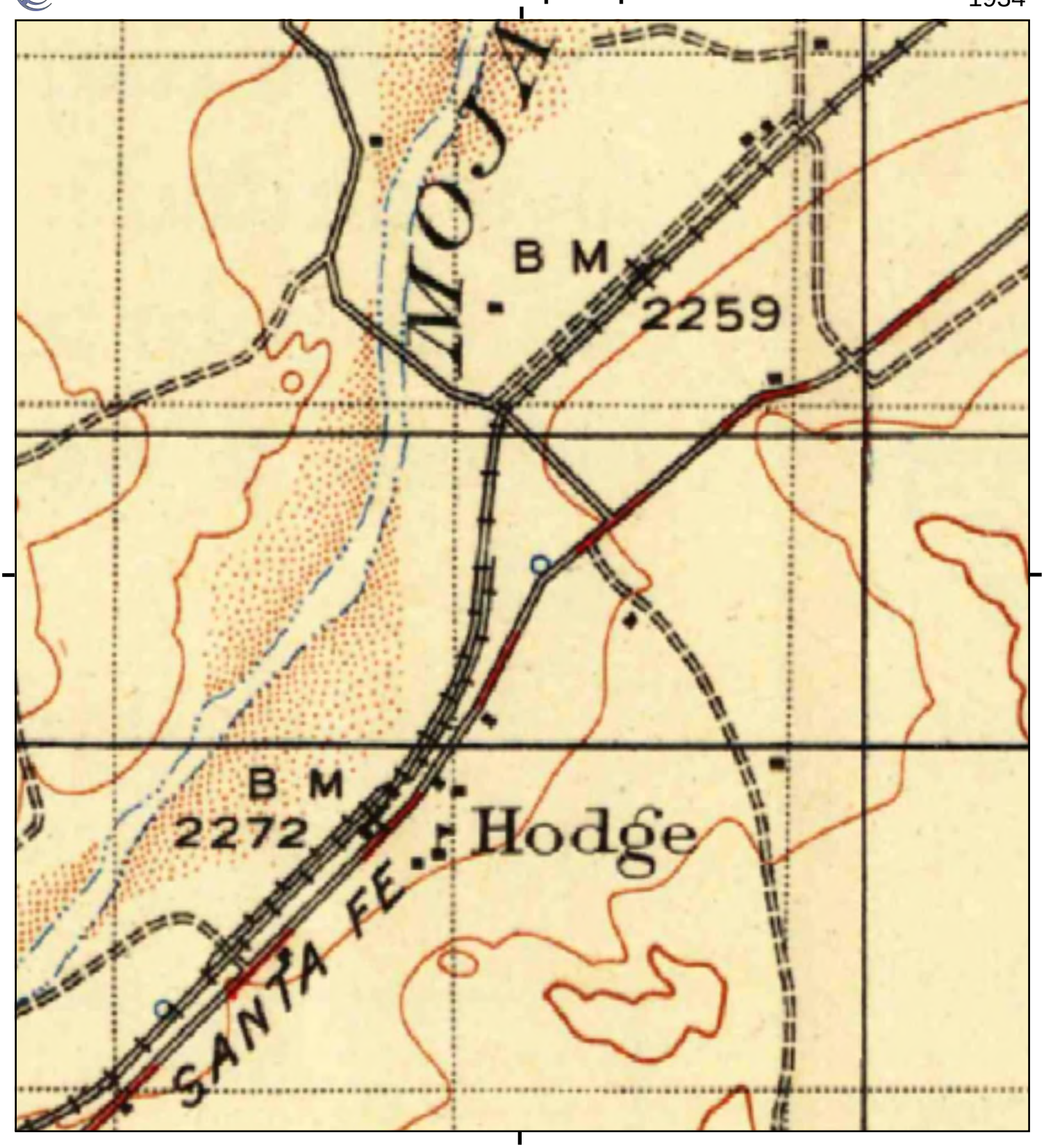
TP, Barstow, 1956, 15-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1934



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

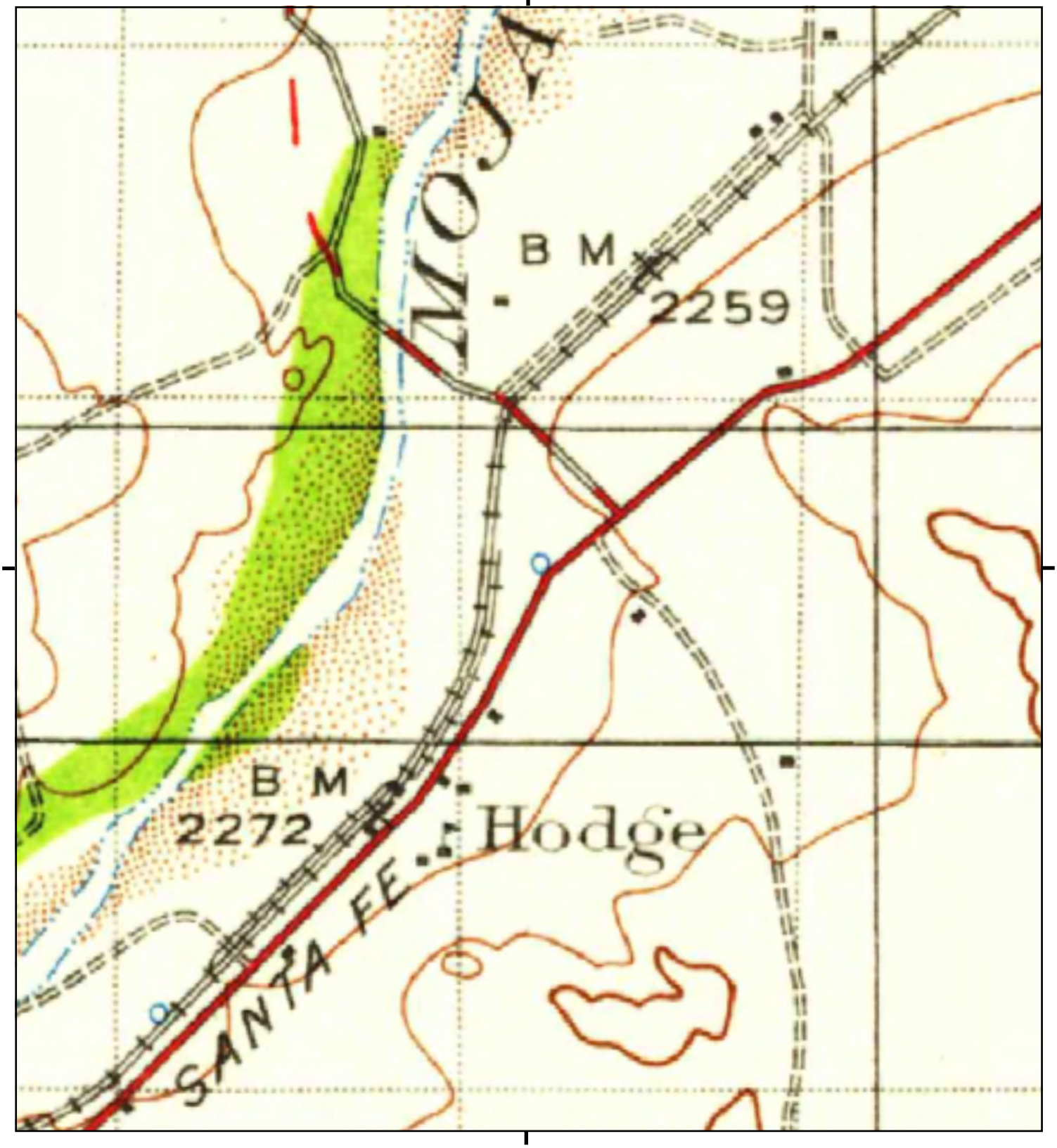
TP, Barstow, 1934, 30-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

Historical Topo Map

1932



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Barstow, 1932, 30-minute

SITE NAME: 21880 MAIN ST
ADDRESS: 21880 MAIN ST
BARSTOW, CA 92311
CLIENT: TRC Environmental Consultants

N

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

Inquiry Number: 5451720.2s
October 11, 2018

The EDR Radius Map™ Report with GeoCheck®

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

21880 MAIN ST
BARSTOW, CA 92311

COORDINATES

Latitude (North):	34.8273060 - 34˚ 49' 38.30''
Longitude (West):	117.1855280 - 117˚ 11' 7.90''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	483034.4
UTM Y (Meters):	3853711.0
Elevation:	2296 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5620410 HODGE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140601
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
21880 MAIN ST
BARSTOW, CA 92311

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR..... EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

LUST..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

EXECUTIVE SUMMARY

IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register
CERS HAZ WASTE ..... CERS HAZ WASTE

Local Lists of Registered Storage Tanks

SWEEPS UST ..... SWEEPS UST Listing
HIST UST ..... Hazardous Substance Storage Container Database
CA FID UST ..... Facility Inventory Database
CERS TANKS ..... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data

COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HIST CORTESE	Hazardous Waste & Substance Site List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
San Bern. Co. Permit	Hazardous Material Permits
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
CIWQS	California Integrated Water Quality System
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
PROJECT	PROJECT (GEOTRACKER)
UIC GEO	UIC GEO (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CERS	CERS

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
	CDL
	CDL

OVERVIEW MAP - 5451720.2S

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 21880 MAIN ST	CLIENT: TRC Environmental Consultants
ADDRESS: 21880 MAIN ST BARSTOW CA 92311	CONTACT: Cassandra Fausel
LAT/LONG: 34.827306 / 117.185528	INQUIRY #: 5451720.2s DATE: October 11, 2018 6:59 pm

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DETAIL MAP - 5451720.2S

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 21880 MAIN ST	CLIENT: TRC Environmental Consultants
ADDRESS: 21880 MAIN ST BARSTOW CA 92311	CONTACT: Cassandra Fausel INQUIRY #: 5451720.2s
LAT/LONG: 34.827306 / 117.185528	DATE: October 11, 2018 7:00 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		0	0	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BARSTOW	S107531324		2300 BLOCK OF EAST MAIN, CROSS	92311	CDL
BARSTOW	S107532080		27033 1/2 W MAIN ST	92311	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/08/2018
Number of Days to Update: 26

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 21

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/29/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 48

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 86

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Quarterly

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 46

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/19/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 10

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 10/01/2018
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

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

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/02/2018
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/08/2018
Number of Days to Update: 26

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/28/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/03/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 09/11/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/04/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 30

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/18/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 39

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/24/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 10/01/2018
Number of Days to Update: 32

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/21/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 25

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/12/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 97

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/10/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 28

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/25/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/09/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 10/02/2018
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 07/06/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 63

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/02/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 14

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 05/02/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 44

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 13

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 44

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 40

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 43

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/20/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 49

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 08/24/2018
Date Made Active in Reports: 09/18/2018
Number of Days to Update: 25

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 13

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 59

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/16/2018
Date Data Arrived at EDR: 07/18/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 37

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 63

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/05/2018
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 13

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 57

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 09/04/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 15

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 08/27/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 36

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/06/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/06/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 27

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 42

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 09/12/2018
Number of Days to Update: 61

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 31

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/17/2018
Date Data Arrived at EDR: 09/18/2018
Date Made Active in Reports: 10/03/2018
Number of Days to Update: 15

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/20/2018
Date Data Arrived at EDR: 08/21/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 17

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 59

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 16

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/11/2018
Number of Days to Update: 36

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 40

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/19/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/03/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 45

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/24/2018
Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 8

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 33

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 09/13/2018
Date Data Arrived at EDR: 09/14/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 5

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 09/13/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 41

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 29

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 09/04/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/04/2018
Number of Days to Update: 22

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/12/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/20/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 9

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 10/01/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 31

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/09/2018
Next Scheduled EDR Contact: 01/21/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

TARGET PROPERTY COORDINATES

Latitude (North):	34.827306 - 34˚ 49’ 38.30’’
Longitude (West):	117.185528 - 117˚ 11’ 7.90’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	483034.4
UTM Y (Meters):	3853711.0
Elevation:	2296 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5620410 HODGE, CA
Version Date:	2012

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

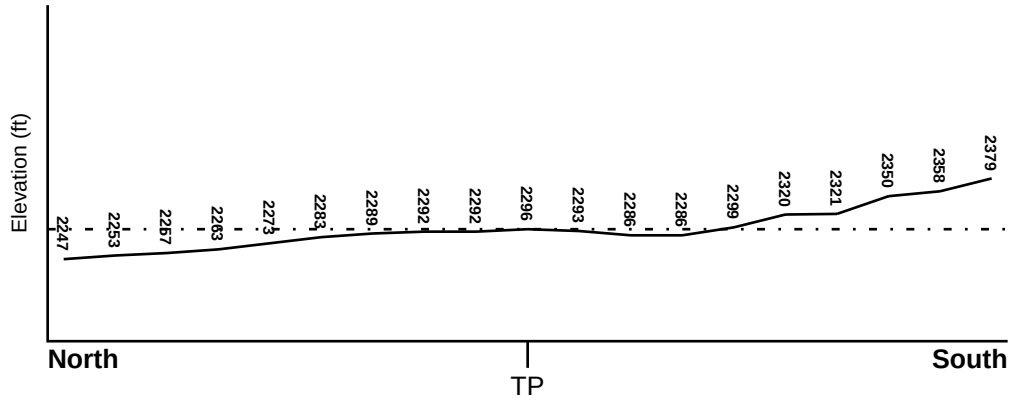
TOPOGRAPHIC INFORMATION

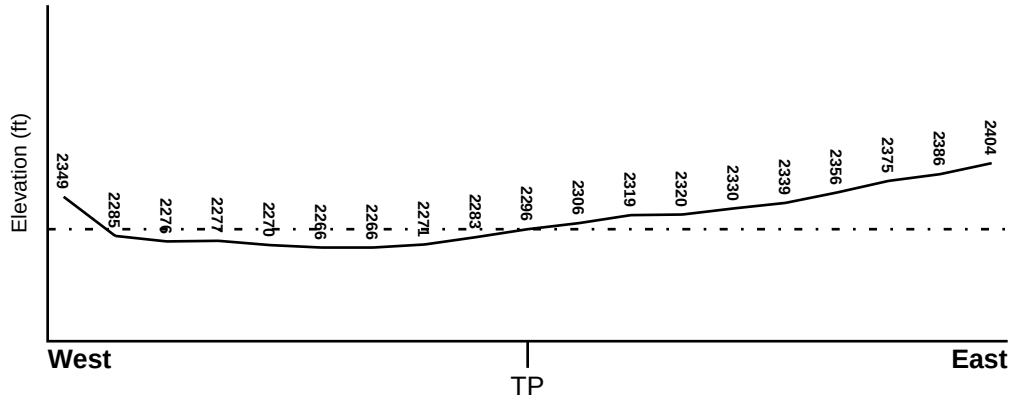
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 2296 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C4525F	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/8 - 1/4 Mile ENE
Site Name:	Riverside Cement Co Oro Grande Plt
Site EPA ID Number:	CAD008296402
Groundwater Flow Direction:	NW IN THE MOJAVE RIVER WASH AREA. GROUND WATER FLOW GENERALLY CONFORMS TO SURFACE TOPOGRAPHY.
Measured Depth to Water:	not available.
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifer(s) underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site–specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

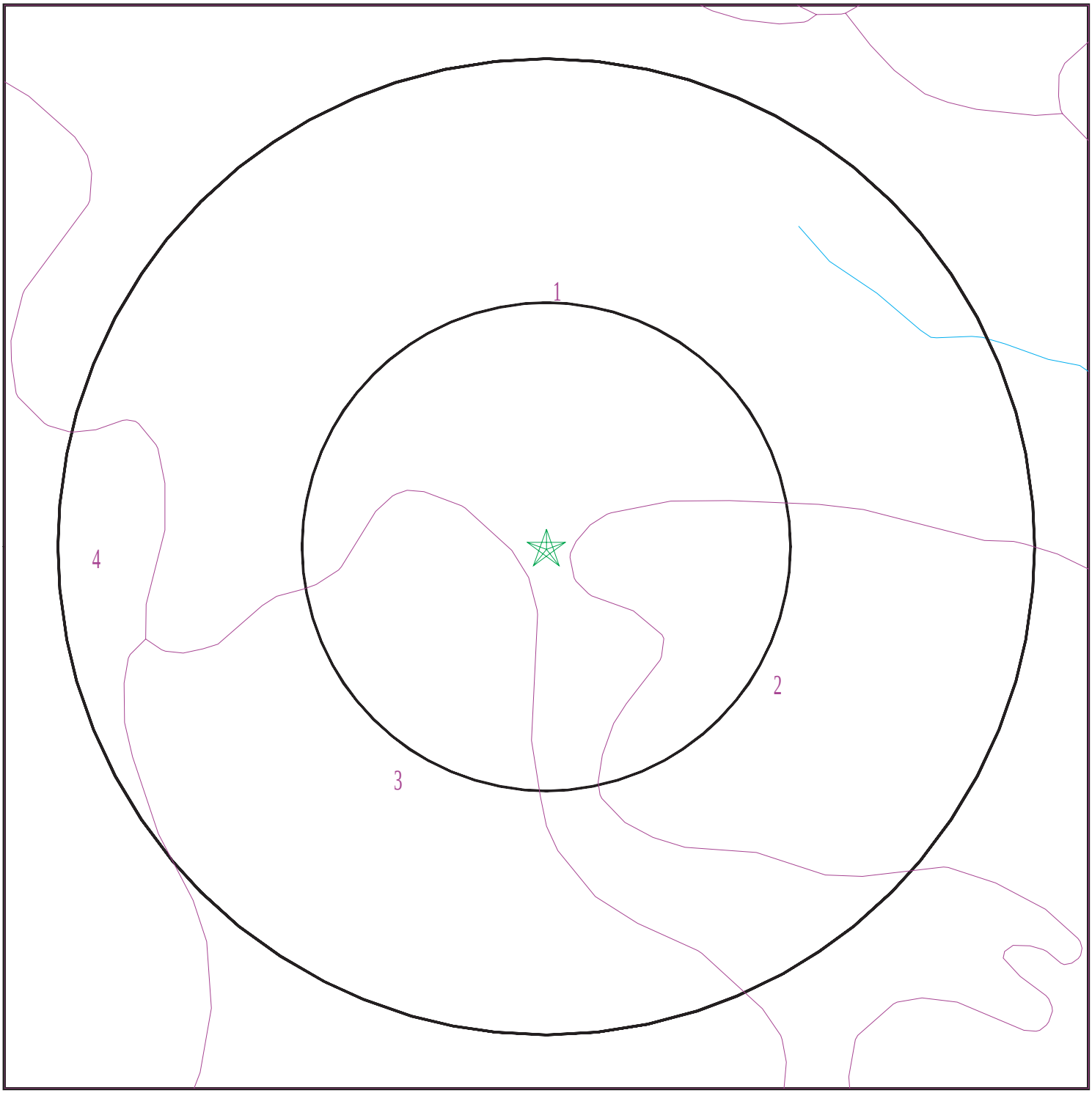
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5451720.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: 21880 MAIN ST ADDRESS: 21880 MAIN ST BARSTOW CA 92311 LAT/LONG: 34.827306 / 117.185528	CLIENT: TRC Environmental Consultants CONTACT: Cassandra Fausel INQUIRY #: 5451720.2s DATE: October 11, 2018 7:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CAJON

Soil Surface Texture:
Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 141 Min: 42	Max: 8.4 Min: 7.4
2	7 inches	59 inches		Not reported	Not reported	Max: 141 Min: 42	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: Joshua

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	GC-GM	Max: 141 Min: 14	Max: 8.4 Min: 7.4
2	3 inches	20 inches	gravelly sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	GC-GM	Max: 141 Min: 14	Max: 8.4 Min: 7.4
3	20 inches	59 inches	very gravelly coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	GC-GM	Max: 141 Min: 14	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: VICTORVILLE

Soil Surface Texture:
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	16 inches	35 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	35 inches	48 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	48 inches	59 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: VILLA

Soil Surface Texture:

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	7 inches	59 inches		Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000155087	1/8 - 1/4 Mile NW
B3	USGS40000154992	1/4 - 1/2 Mile SSW
C5	USGS40000154977	1/4 - 1/2 Mile SSW
C7	USGS40000154968	1/4 - 1/2 Mile SSW
D8	USGS40000155135	1/4 - 1/2 Mile NNW
C10	USGS40000154962	1/4 - 1/2 Mile SSW
C11	USGS40000154963	1/4 - 1/2 Mile SSW
E12	USGS40000155134	1/4 - 1/2 Mile NNE
E17	USGS40000155141	1/4 - 1/2 Mile NNE
F19	USGS40000155180	1/2 - 1 Mile NNW
G20	USGS40000155213	1/2 - 1 Mile North
H22	USGS40000154865	1/2 - 1 Mile South
G23	USGS40000155216	1/2 - 1 Mile North
I24	USGS40000155214	1/2 - 1 Mile NNW
H27	USGS40000154855	1/2 - 1 Mile South
J28	USGS40000154866	1/2 - 1 Mile SSW
K29	USGS40000154841	1/2 - 1 Mile South
J32	USGS40000154847	1/2 - 1 Mile SSW
J33	USGS40000154848	1/2 - 1 Mile SSW
L35	USGS40000154856	1/2 - 1 Mile SSW
L36	USGS40000154849	1/2 - 1 Mile SSW
38	USGS40000154829	1/2 - 1 Mile SSW
N40	USGS40000155261	1/2 - 1 Mile North
N41	USGS40000155262	1/2 - 1 Mile North
N42	USGS40000155263	1/2 - 1 Mile North
O44	USGS40000155260	1/2 - 1 Mile North
N45	USGS40000155274	1/2 - 1 Mile North
N46	USGS40000155275	1/2 - 1 Mile North
P48	USGS40000155273	1/2 - 1 Mile North
O50	USGS40000155259	1/2 - 1 Mile NNE
M51	USGS40000154871	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

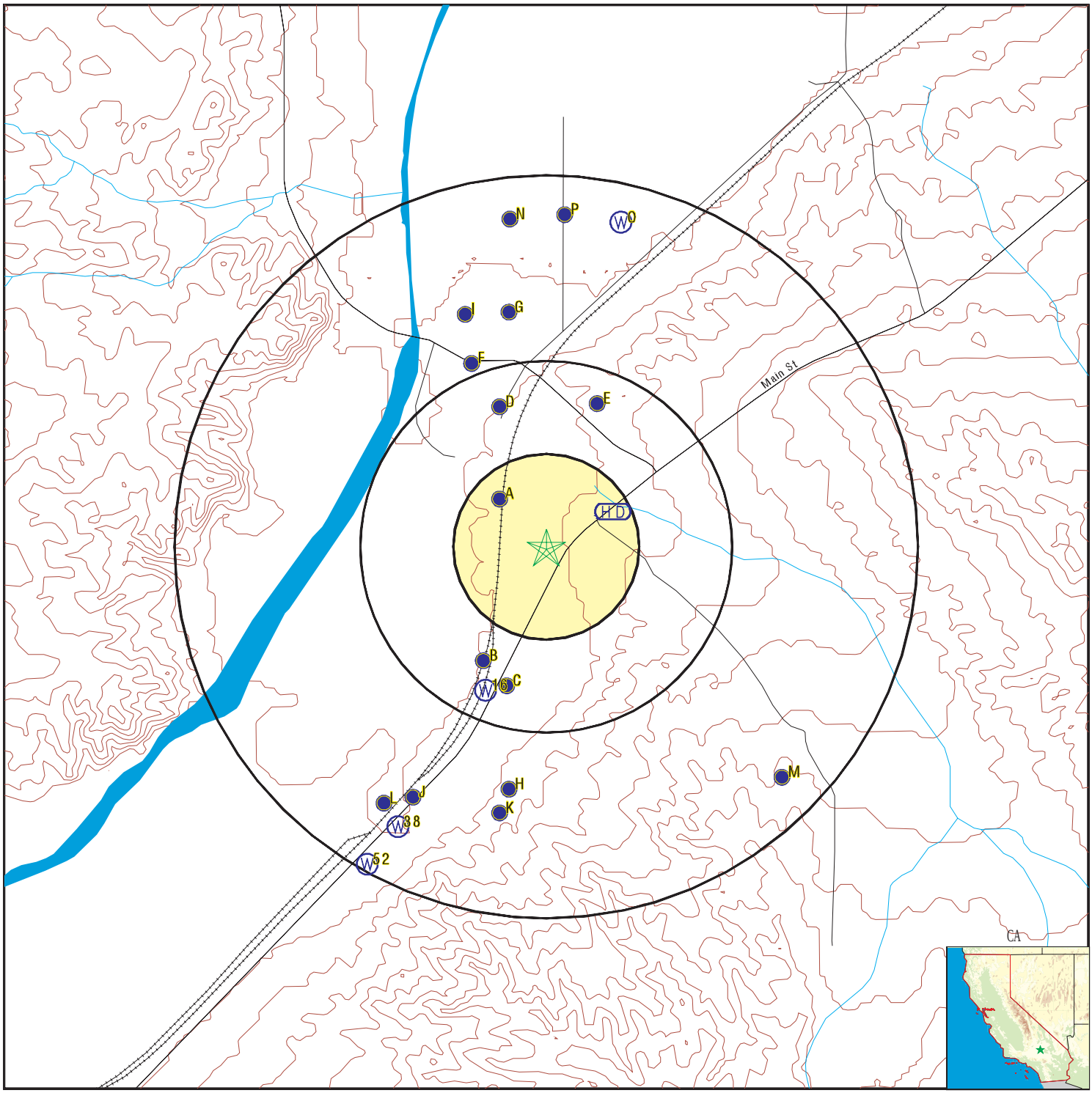
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	CADW60000020846	1/8 - 1/4 Mile NW
B4	CADW60000002606	1/4 - 1/2 Mile SSW
B6	CADW60000020797	1/4 - 1/2 Mile SSW
E9	CADW60000023410	1/4 - 1/2 Mile NNE
D13	CADW60000023412	1/4 - 1/2 Mile NNW
C14	CADW60000020796	1/4 - 1/2 Mile SSW
E15	CADW60000023411	1/4 - 1/2 Mile NNE
16	CADW60000020798	1/4 - 1/2 Mile SSW
F18	CADW60000016027	1/2 - 1 Mile NNW
G21	CADW60000023406	1/2 - 1 Mile NNW
H25	CADW60000002932	1/2 - 1 Mile SSW
I26	CADW60000023407	1/2 - 1 Mile NNW
K30	CADW60000028841	1/2 - 1 Mile SSW
J31	CADW60000002933	1/2 - 1 Mile SSW
J34	CADW60000028842	1/2 - 1 Mile SSW
L37	CADW60000002934	1/2 - 1 Mile SSW
M39	CADW60000028840	1/2 - 1 Mile SE
N43	CADW60000023405	1/2 - 1 Mile North
P47	CADW60000008681	1/2 - 1 Mile North
N49	CADW60000000385	1/2 - 1 Mile North
52	CADW60000028843	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 5451720.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	21880 MAIN ST	CLIENT:	TRC Environmental Consultants
ADDRESS:	21880 MAIN ST BARSTOW CA 92311	CONTACT:	Cassandra Fausel
		INQUIRY #:	5451720.2s
LAT/LONG:	34.827306 / 117.185528	DATE:	October 11, 2018 7:00 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **NW** **1/8 - 1/4 Mile** **Lower**	**FED USGS**	**USGS40000155087**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34E001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	12	Level reading date:	1932-05-18
Feet below surface:	44.6	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1932-04-06	Feet below surface:	44.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-02-23	Feet below surface:	46.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-01-07	Feet below surface:	49.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-10-02	Feet below surface:	49.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-05	Feet below surface:	47.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-05-06	Feet below surface:	45.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-03-17	Feet below surface:	46.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-09-11	Feet below surface:	47.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-04-15	Feet below surface:	45.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-03-06	Feet below surface:	49.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-01-17	Feet below surface:	50.2
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
A2 **NW** **1/8 - 1/4 Mile** **Lower**	**CA WELLS**	**CADW60000020846**

Objectid:	20846	Latitude:	34.8292
Longitude:	-117.1882	Site code:	348292N1171882W001
State well numbe:	09N03W34E001S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000020846		

B3 **SSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000154992**	

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34N006S	Type:	Well
Description:	GPS WITH ROCKWELL GPS: MOJAVE WATER AGENCY WELL		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	20.2
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	2004-03-11
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		

Level reading date:	1998-04-21	Feet below surface:	3.58
Feet to sea level:	Not Reported	Note:	Not Reported

B4 **SSW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADW60000002606**

Objectid:	2606	Latitude:	34.823039
Longitude:	-117.188659	Site code:	348230N1171896W001
State well numbe:	09N03W34N006S	Local well name:	’09N03W34N06’
Well use id:	1	Well use descrip:	Observation
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002606		

Map ID Direction Distance Elevation	Database	EDR ID Number
C5 **SSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000154977**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34N003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	28.5
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-23
Feet below surface:	20.3	Feet to sea level:	Not Reported
Note:	Not Reported		

B6 **SSW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADW60000020797**

Objectid:	20797	Latitude:	34.8225
Longitude:	-117.1882	Site code:	348225N1171882W001
State well numbe:	09N03W34N003S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000020797		

C7 **SSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000154968**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34N001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
D8 **NNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000155135**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34D002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1963-09-19
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		

Level reading date:	1954-04-12	Feet below surface:	45.20
Feet to sea level:	Not Reported	Note:	Not Reported

E9 **NNE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADW60000023410**

Objectid:	23410	Latitude:	34.8328
Longitude:	-117.1837	Site code:	348328N1171837W001
State well numbe:	09N03W34C001S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000023410		

C10 **SSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000154962**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34N002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	16
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1931-12-16

Feet below surface:	13.7	Feet to sea level:	Not Reported
Note:	Not Reported		

C11
SSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000154963**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34N004S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	30	Level reading date:	1939-05-24
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		
Level reading date:	1938-11-11	Feet below surface:	15.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-06-21	Feet below surface:	12.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-01-14	Feet below surface:	16.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-26	Feet below surface:	12.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1936-03-12	Feet below surface:	12.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-11-12	Feet below surface:	15.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-04-17	Feet below surface:	12.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1935-01-21	Feet below surface:	16.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-12-14	Feet below surface:	16.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1933-03-02	Feet below surface:	12.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-11-15	Feet below surface:	15.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-09-23	Feet below surface:	14.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1932-05-18	Feet below surface:	12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-04-06	Feet below surface:	11.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-03-17	Feet below surface:	12.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-02-23	Feet below surface:	12.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1932-02-15	Feet below surface:	12.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-12-23	Feet below surface:	17.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-11-17	Feet below surface:	17.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-10-07	Feet below surface:	16.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-05	Feet below surface:	15.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-05-06	Feet below surface:	13.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-03-17	Feet below surface:	13.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-02-13	Feet below surface:	14.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-12-12	Feet below surface:	16.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-09-11	Feet below surface:	15.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-01-24	Feet below surface:	16.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-01-14	Feet below surface:	13.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1919-01-15	Feet below surface:	16.1
Feet to sea level:	Not Reported	Note:	Not Reported

E12
NNE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000155134**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34C001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported

Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1948	Well Depth:	104
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1954-04-13
Feet below surface:	61.4	Feet to sea level:	Not Reported
Note:	Not Reported		

D13
NNW **CA WELLS** **CADW60000023412**
1/4 - 1/2 Mile
Lower

Objectid:	23412	Latitude:	34.8328
Longitude:	-117.1882	Site code:	348328N1171882W001
State well numbe:	09N03W34D002S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000023412		

C14
SSW **CA WELLS** **CADW60000020796**
1/4 - 1/2 Mile
Lower

Objectid:	20796	Latitude:	34.8217
Longitude:	-117.1879	Site code:	348217N1171879W001
State well numbe:	09N03W34N002S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000020796		

E15
NNE **CA WELLS** **CADW60000023411**
1/4 - 1/2 Mile
Higher

Objectid:	23411	Latitude:	34.833
Longitude:	-117.1834	Site code:	348330N1171834W001
State well numbe:	09N03W34C002S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000023411		

Map ID Direction Distance Elevation	Database	EDR ID Number
16 **SSW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADW60000020798**

Objectid:	20798	Latitude:	34.8217
Longitude:	-117.1884	Site code:	348217N1171884W001
State well numbe:	09N03W34N004S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000020798		

E17 **NNE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000155141**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W34C002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1918	Well Depth:	84
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-20
Feet below surface:	62.44	Feet to sea level:	Not Reported
Note:	Not Reported		

F18 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADW60000016027**

Objectid:	16027	Latitude:	34.83447
Longitude:	-117.189057	Site code:	348345N1171891W001
State well numbe:	09N03W34D003S	Local well name:	'09N03W34D03'
Well use id:	4	Well use descrip:	Residential
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000016027		

F19 **NNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155180**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	009N003W34D003S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	2004-10-14
Feet below surface:	32.22	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-03-30	Feet below surface:	31.39
Feet to sea level:	Not Reported	Note:	Not Reported

G20
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000155213**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27N001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	6	Level reading date:	1932-02-23
Feet below surface:	13.6	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1932-02-04	Feet below surface:	15.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-08-03	Feet below surface:	20.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-05-20	Feet below surface:	16.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1931-03-17	Feet below surface:	13.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1930-01-24	Feet below surface:	17.4
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
G21 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADW60000023406**

Objectid:	23406	Latitude:	34.8364
Longitude:	-117.1879	Site code:	348364N1171879W001
State well numbe:	09N03W27N001S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000023406		

H22 **South** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000154865**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W03D001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-05-29
Feet below surface:	26.32	Feet to sea level:	Not Reported
Note:	Not Reported		

G23 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155216**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27N002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
I24 **NNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155214**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27N003S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	13	Level reading date:	1997-10-09
Feet below surface:	28.49	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1997-03-18	Feet below surface:	27.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-10-07	Feet below surface:	26.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-11-08	Feet below surface:	21.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-21	Feet below surface:	14.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-23	Feet below surface:	23.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-11-17	Feet below surface:	21.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-03-31	Feet below surface:	14.23
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1993-03-25	Feet below surface:	14.36
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1993-02-03	Feet below surface:	17.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-11-17	Feet below surface:	29.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-03-11	Feet below surface:	31.45
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-11-21	Feet below surface:	33.79
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
H25 **SSW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW60000002932**

Objectid:	2932	Latitude:	34.818
Longitude:	-117.1879	Site code:	348180N1171879W001
State well numbe:	08N03W03D001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002932		

I26 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADW60000023407**

Objectid:	23407	Latitude:	34.8364
Longitude:	-117.1898	Site code:	348364N1171898W001
State well numbe:	09N03W27N003S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000023407		

H27 **South** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000154855**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W03D002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1957	Well Depth:	60
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J28 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154866**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W04A001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported

Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	24.7
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-05-29
Feet below surface:	19.38	Feet to sea level:	Not Reported
Note:	Not Reported		

K29
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000154841**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W03D003S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1931-05-20
Feet below surface:	39.5	Feet to sea level:	Not Reported
Note:	Not Reported		

K30
SSW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000028841**

Objectid:	28841	Latitude:	34.8169
Longitude:	-117.1882	Site code:	348169N1171882W001
State well numbe:	08N03W03D003S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028841		

J31
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000002933**

Objectid:	2933	Latitude:	34.818
Longitude:	-117.1923	Site code:	348180N1171923W001
State well numbe:	08N03W04A001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office

Site id: CADW60000002933

J32
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000154847**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W04A002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	60
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1967-03-06
Feet below surface:	22.75	Feet to sea level:	Not Reported
Note:	Not Reported		

J33
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000154848**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W04A003S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J34
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000028842**

Objectid:	28842	Latitude:	34.8172
Longitude:	-117.1923	Site code:	348172N1171923W001
State well numbe:	08N03W04A002S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028842		

Map ID Direction Distance Elevation	Database	EDR ID Number
L35 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154856**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W04A004S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19690708	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1969-07-15
Feet below surface:	14	Feet to sea level:	Not Reported
Note:	Not Reported		

L36 **SSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000154849**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W04A011S	Type:	Well
Description:	GPS WITH ROCKWELL GPS; MOJAVE WATER AGENCY WELL		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	24.1
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	2004-03-10
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The well was destroyed (no water level is recorded).		
Level reading date:	1998-04-21	Feet below surface:	7.26
Feet to sea level:	Not Reported	Note:	Not Reported

L37 **SSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADW60000002934**

Objectid:	2934	Latitude:	34.8172
Longitude:	-117.1937	Site code:	348172N1171937W001
State well numbe:	08N03W04A011S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley

Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002934		

38
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000154829**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W04A007S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	29	Level reading date:	2005-02-09
Feet below surface:	14.08	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-09-15	Feet below surface:	22.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2004-03-10	Feet below surface:	21.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-27	Feet below surface:	20.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-03-27	Feet below surface:	19.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-12-04	Feet below surface:	19.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-24	Feet below surface:	17.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-19	Feet below surface:	17.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-21	Feet below surface:	15.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-17	Feet below surface:	16.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-23	Feet below surface:	14.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-12	Feet below surface:	14.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-24	Feet below surface:	11.82
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-10-07	Feet below surface:	11.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-07	Feet below surface:	12.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-10-09	Feet below surface:	15.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-18	Feet below surface:	14.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-10-07	Feet below surface:	14.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-03-27	Feet below surface:	11.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-11-13	Feet below surface:	11.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-03-21	Feet below surface:	11.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-16	Feet below surface:	14.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-03-23	Feet below surface:	12.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-11-17	Feet below surface:	11.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-03-25	Feet below surface:	10.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-11-19	Feet below surface:	17.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-05-07	Feet below surface:	16.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-03-11	Feet below surface:	19.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-12-03	Feet below surface:	20.60
Feet to sea level:	Not Reported	Note:	Not Reported

M39
SE
1/2 - 1 Mile
Higher

CA WELLS **CADW60000028840**

Objectid:	28840	Latitude:	34.8183
Longitude:	-117.1748	Site code:	348183N1171748W001
State well numbe:	08N03W03A001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028840		

Map ID Direction Distance Elevation	Database	EDR ID Number
N40 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155261**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27M001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-21
Feet below surface:	16.02	Feet to sea level:	Not Reported
Note:	Not Reported		

N41 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155262**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27M003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT.		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

N42 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155263**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27M004S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1956	Well Depth:	65
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
N43 **North** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADW60000023405**

Objectid:	23405	Latitude:	34.84
Longitude:	-117.1879	Site code:	348400N1171879W001
State well numbe:	09N03W27M001S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000023405		

O44 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155260**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27L001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1956	Well Depth:	58
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

N45 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155274**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27M002S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-10-21
Feet below surface:	14.02	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
N46 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155275**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27M005S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

P47 **North** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADW60000008681**

Objectid:	8681	Latitude:	34.8403
Longitude:	-117.1851	Site code:	348403N1171851W001
State well numbe:	09N03W27L002S	Local well name:	’’
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	’6-41’	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000008681		

P48 **North** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000155273**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27L002S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	12	Level reading date:	1967-03-15
Feet below surface:	15.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1966-10-19	Feet below surface:	19.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-16	Feet below surface:	14.76

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-21	Feet below surface:	27.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-11	Feet below surface:	24.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-15	Feet below surface:	24.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-10-31	Feet below surface:	21.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-14	Feet below surface:	19.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-02	Feet below surface:	18.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-03-15	Feet below surface:	15.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-27	Feet below surface:	17.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-09	Feet below surface:	16.14
Feet to sea level:	Not Reported	Note:	Not Reported

N49
North
1/2 - 1 Mile
Lower

CA WELLS **CADW60000000385**

Objectid:	385	Latitude:	34.8403
Longitude:	-117.1876	Site code:	348403N1171876W001
State well numbe:	09N03W27M002S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000000385		

O50
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000155259**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N003W27L003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG ACCURATE +/- 500 FT		
HUC:	18090208	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	60
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation		Database	EDR ID Number
M51 **SE** **1/2 - 1 Mile** **Higher**		**FED USGS**	**USGS40000154871**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008N003W03A001S	Type:	Well
Description:	Not Reported	HUC:	18090208
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	71	Level reading date:	1958-06-06
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		
Level reading date:	1954-01-17	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		
Level reading date:	1953-11-12	Feet below surface:	132.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-12-16	Feet below surface:	128.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-13	Feet below surface:	127.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-27	Feet below surface:	127.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-15	Feet below surface:	136.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-18	Feet below surface:	131.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-06-14	Feet below surface:	127.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-18	Feet below surface:	127.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-20	Feet below surface:	127.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-14	Feet below surface:	126.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-16	Feet below surface:	126.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-02	Feet below surface:	127.9

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-12-13	Feet below surface:	126.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-10-17	Feet below surface:	126.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-09-14	Feet below surface:	126.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-08-15	Feet below surface:	126.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-07-12	Feet below surface:	126.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-06-15	Feet below surface:	126.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-05-01	Feet below surface:	127.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-04-19	Feet below surface:	127.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-03-15	Feet below surface:	126.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-02-17	Feet below surface:	125.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-01-17	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-12-09	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-11-18	Feet below surface:	125.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-10-14	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-09-15	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-08-11	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-07-14	Feet below surface:	125.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-06-15	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-05-14	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-04-15	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1948-03-12	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1948-02-17	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-12-12	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-10-15	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-09-05	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-08-07	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-07-24	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-07-10	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-25	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-06-12	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-05-29	Feet below surface:	125.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-05-15	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-30	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-04-09	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-18	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-03-05	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-20	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-02-05	Feet below surface:	125.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-21	Feet below surface:	125.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-01-01	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-12-17	Feet below surface:	125.7
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1946-12-02	Feet below surface:	125.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-25	Feet below surface:	125.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-18	Feet below surface:	125.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-06	Feet below surface:	125.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-28	Feet below surface:	126.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-21	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-15	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-10-06	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-30	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-23	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-16	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-09-06	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-29	Feet below surface:	125.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-21	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-08-05	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-07-29	Feet below surface:	125.3
Feet to sea level:	Not Reported	Note:	Not Reported

52
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000028843**

Objectid:	28843	Latitude:	34.814905
Longitude:	-117.194002	Site code:	348164N1171934W001
State well numbe:	08N03W04A007S	Local well name:	'Wind Well off Rte 66'
Well use id:	4	Well use descrip:	Residential
County id:	36	County name:	San Bernardino
Basin code:	'6-41'	Basin desc:	Middle Mojave River Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028843		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92311	36	2

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92311

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

Inquiry Number: 5451720.5
October 12, 2018

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by infoUSA®

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1985	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1975	☑	☐	Haines Criss-Cross Directory
1964	☑	☐	Lusky Brothers

FINDINGS

TARGET PROPERTY STREET

21880 MAIN ST
BARSTOW, CA 92311

Year	*CD Image*	*Source*
MAIN ST		
2014	pg A1	EDR Digital Archive
2010	pg A3	EDR Digital Archive
2005	pg A5	EDR Digital Archive
2000	pg A6	EDR Digital Archive
1995	pg A8	EDR Digital Archive
1992	pg A11	EDR Digital Archive
1985	pg A13	Haines Criss-Cross Directory
1985	pg A14	Haines Criss-Cross Directory
1985	pg A15	Haines Criss-Cross Directory
1980	pg A16	Haines Criss-Cross Directory
1980	pg A17	Haines Criss-Cross Directory
1980	pg A18	Haines Criss-Cross Directory
1975	pg A19	Haines Criss-Cross Directory
1975	pg A20	Haines Criss-Cross Directory
1975	pg A21	Haines Criss-Cross Directory
1964	pg A22	Lusky Brothers
1964	pg A23	Lusky Brothers
1964	pg A24	Lusky Brothers
NATIONAL TRAILS HWY		
2014	pg A2	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2000	pg A7	EDR Digital Archive
1995	pg A9	EDR Digital Archive
1992	pg A12	EDR Digital Archive
W MAIN ST		
1995	pg A10	EDR Digital Archive

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 2014

21621	CULBERTSON, ASHLEY
21639	FRAZIER, PATRICK
	ROYER ASHLEY N
21709	BOLTON, GARRY W
21717	OCCUPANT UNKNOWN,
21878	SILVA, APRIL A
22090	DELANO, BRANDY
22101	ALLBROOK, CRAIG W
22150	RIOS, NICHOLAS
22152	RAYSOR, ROBERT
22158	HERNANDEZ, DANA
22164	STEPHENS, HENSON

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NATIONAL TRAILS HWY 2014

21615 LIGHTNER ELECTRIC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 2010

21615	LIGHTNER, RONALD E
21621	DANA, BARBARA D
21639	OCCUPANT UNKNOWN,
21709	HAWKINS, STEPHEN L
21717	DRAGOO, GAYLE
21727	OCCUPANT UNKNOWN,
21880	DELORES L CONSTRUCTION
	SILVA, APRIL
22090	DELANO, BRANDY
22101	ALLBROOK, CRAIG W
22150	OCCUPANT UNKNOWN,
22152	RAYSOR, ROBERT
22158	HERNANDEZ, DANA
22164	STEPHENS, HENSON

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NATIONAL TRAILS HWY 2010

21615 LIGHTNER ELECTRIC
21717 B & J HEATING & AIR CONDITION

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 2005

21615	LIGHTNER, RONALD E
21621	OCCUPANT UNKNOWN,
21639	DANA, BARBARA
21709	HAWKINS, STEPHEN L
21717	DRAGOO, GAYLE
21727	DOMEROWSKI, P
21878	SILVA, APRIL A
22101	ALLBROOK, CRAIG W
22150	OCCUPANT UNKNOWN,
22152	RAYSOR, ROBERT
22158	HERNANDEZ, DANA
22172	OCCUPANT UNKNOWN,
22178	KRYGER, WILLIAM

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 2000

21615	LIGHTNER, RONALD
21619	OCCUPANT UNKNOWN,
21621	KAPALO, BARBARA
21639	DANA, WILFRED L
21644	OCCUPANT UNKNOWN,
21717	OCCUPANT UNKNOWN,
21727	DOMBROWSKY, WALLY
21729	HAWKINS, STEPHEN
21878	OCCUPANT UNKNOWN,
21880	OCCUPANT UNKNOWN,
22013	OCCUPANT UNKNOWN,
22050	OCCUPANT UNKNOWN,
22086	OCCUPANT UNKNOWN,
22090	OCCUPANT UNKNOWN,
22101	ALLBROOK, CRAIG
22122	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NATIONAL TRAILS HWY 2000

19425	ERVIN, GEORGE L
19741	MCCOY, JESS
19819	YOUNG, DOUGLAS K
20075	PENA, JOSE A
20510	BOYCE, WILLIAM E
20666	BURTON, CRAIG A
21333	OCCUPANT UNKNOWN,
21483	OCCUPANT UNKNOWN,
21615	OCCUPANT UNKNOWN,
21655	OCCUPANT UNKNOWN,
21709	OCCUPANT UNKNOWN,
21717	OCCUPANT UNKNOWN,
22225	CHISM, CARY
22323	KANE, STEVEN P
22373	CRAINE, CARL
22419	STEPHEY, LARRY G
	TRIPLE S SERVICE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 1995

20682	BRIGGS COMMUNICATIONS J D
22225	C & C JANITORIAL SERVICE
24535	BARSTOW-DEATH VLY FRT LINES
24544	GALLOWAY R L CO
24716	INDUSTRIAL & COMMERCIAL PDTS
24744	DYER HANK ELECTRIC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NATIONAL TRAILS HWY 1995

21717 B & J HEATING & AIR CONDITION

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W MAIN ST 1995

12729	KATZ
19425	ERVIN, GEORGE L
19741	MCCOY, JESS
20542	CORNIEL, SAMUEL R
21423	OCCUPANT UNKNOWNN
21559	IRWIN, J
22086	BILLS, LESLIE
22110	OCCUPANT UNKNOWNN
22152	BARLOW, GILES D
22158	LANIE, DEBORAH
22164	OCCUPANT UNKNOWNN
22168	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MAIN ST 1992

19456	HARDWICK, CYNTHIA M
19741	MCCOY, JESS
21423	NELSON, STEVEN
21615	ANDREWS, JOHN H
22110	NORRIS, BERRY R
22225	C & C JANITORIAL SERVICE
23135	HOLIDAY, T
	MYERS, AARON W
	SWARTZ, RICHARD L
23253	GRAY, MORRIS P SR
	GRAYS AUTO SALVAGE
	MORRIS GRAYS MOBILE GARA
24065	DIAMOND TRUSS CORP

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

NATIONAL TRAILS HWY 1992

19425	ERVIN, GEORGE L
19859	FROST, LORI A
20510	BOYCE, WILLIAM E
21333	RICE, GUY E
21483	EGG, THERON
21559	IRWIN, JOSEPH
21727	DOMBROWSKY, WALLY
22225	CHISM, CARY
22419	STEPHEY, LARRY G
22981	ADAMS, A D
24544	GALLOWAY, ROGER L
24644	RICORDATI, RONALD

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1985

21483	EGG THERON	253-2378	7
21559	IRWIN JOS	253-7686	0
21569	XXXX	00	
21709	XXXX	00	
21727	DOMBROWSKY WALLY	253-7278	9
21775	XXXX	00	
22210	XXXX	00	
22225	CHISM CARY	253-3590	0
23135	XXXX	00	
24498	XXXX	00	
24544	GALLOWAY ROGER L	253-7272	
24644	DOWNING T J	253-2239	1
	PENLAND L M	253-7534	2
	RICORDATI RONALD	253-2470	
	SCOTT MORLEY V	253-2364	1

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1985

NATIONAL TRLS HWY
92311 BARSTOW

LENWOOD AREA

19702	NELSON T M	253-7556	0
19978	XXXX	00	
20682	WEBB PAUL H	253-5556	
21615	XXXX	00	
21621	XXXX	00	
26759	MARSH JOHN C	256-6766	

* 0 BUS 6 RES 0 NEW

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1985

MAIN W 92311 BARSTOW

LEWOOD AREA

21709	PEREZ LYDIA	253-3262	+5
22225	**C&C JANITORIAL SERV**	**253-7322**	2
23135	GARRISON HARLD J	253-7593	+5
	SACKETT BRET W	253-3747	+5
	TURPEN STEVEN	253-7591	+5
24085	BODNAR WILLIAM	253-5603	3
24250	JASKA WESLEY	253-7391	
24520	FISHER H E	253-3713	4
	SEARLES H R	253-7736	1
24535	**BARSTOW DTH VLY FGT**	**253-2670**	8

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1980

21483	EGG THERON	253-2378	7
21559	IRWIN JOS	253-7686	+0
21569	XXXX	00	
21709	MACDONALD C R	253-2641	9
21727	DOMBROWSKY WALLY	253-7278	9
21775	LYMAN R F	253-7794	8
22210	WALLACE RAY	253-3368	9
22225	CHISM CARY	253-3590	+0
23135	XXXX	00	
24498	XXXX	00	
24544	DOWNING T J	253-2239	+0
	GALLOWAY ROGER L	253-7272	4
24644	HAYNES OLIVE A	253-3420	
	RICORDATI RONALD	253-2470	

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1980

NATIONAL TRLS HWY
92311 BARSTOW

LENWOOD AREA

19702	NELSON T M	253-7556 +0
20682	WEBB PAUL H	253-5556
21615	RICHEY GEORGE	253-2466
21621	RICHEY RONALD W	253-5366

* 0 BUS 4 RES 1 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MAIN ST 1980

2490*	ALS AUTO PAINT&SPLS	256-6421 +0
2491	MEDLEY DEBORAH A	256-8045 +0
2521*	KEL LITE INDUSTRIES	256-1731 +0
*	KNUDSEN DAIRY PRODS	256-2198 +0
2530.....	APARTMENTS	
	BRUCE J C	256-5756 +0
	DUNCAN WILLIAM J	256-0529 +0
	GIBSON NOAH C	256-5856 +0
	HAYDEN ANN S	256-9185 +0
	JOHNSON M L	256-1133 +0
	JORDAN CECIL W	256-3658 +0
	KLINGLESMITH IONA	256-0991 +0
	LURING HOMER D	256-5761 +0
	MCCORMICK C L	256-9185 +0
	MCNICHOL MARTHA	256-3658 +0
	RYAN LAWRENCE	256-1683 +0
	SMITH B	256-3158 +0
*	SUNSET TRAILER PARK	256-2077 +0
	THOMPSON T F	256-1998 +0
	WIEDERKEHR CLYDE	256-1336 +0
2530.....		
21569	WILDRICK BILLY	253-2368 +0
21615	BEARD F	253-3480 +0
22122	EDWARDS F A	253-7470 +0
22273	SPOONHAUER FRED L	253-7297 7
23135	BROOKS FRED R	253-7308 7
	MCDONALD GENE	253-5238 9
23635	XXXX	00
24063	XXXX	00
24085	DEPRIEST CHARLES E	253-7551 9
24250	JASKA WESLEY	253-7391
24498*	GATE CTY BVRG DSTRB	253-2911

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1975

19975	SCHMIT ALBERT	253-5456
20510	BOYCE RSHEL R	253-3227+5
20578	RUBY JOHN R	253-2456
20917*	HI DESERT AUTO WRCK	253-5334
21337	GREENFIELD GEORGE	253-7256
	TEAMES G G MRS	253-7256
21483	DEROUSSE LOUIS E	253-2256
	MILES COURTNEY	253-2256
21569	KNAUFF EDWARD G	253-5298+5
21615	XXXX	00
21717	XXXX	00
22210	TELLEZ TONY	253-7571 4
22250	HILEMAN K	253-7218 4
23135	MCCONAHAY RUDOLPH	253-7404+5
24498*	GATE CTY BVRG DSTRB	253-2911
24520	BERRY C O	253-7324+5
24544	GALLOWAY ROGER L	253-7272 4
24644	HAYNES OLIVE A	253-3420
	HAYNES VIOLET	253-2476
	NEELY H L	253-2239+5
	RICORDATI RONALD	253-2470
24664	RYAN LAWRENCE C	253-7371+5
24744	DYER HENRY H	253-7724
24745*	FREUND WM C	253-2401

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1975

NATIONAL TRLS HWY 92311 LENWOOD

19819	JOBE TILLMAN	253-2339 4
19867	JOBE TILLMAN	253-2666
20682	WEBB PAUL H	253-5556
21615	RICHEY GEORGE	253-2466
21621	RICHEY RONALD W	253-5366
24655	XXXX	00

* 0 BUS 6 RES 0 NEW

Target Street	Cross Street	Source
✔	-	Haines Criss-Cross Directory

MAIN ST 1975

```
 1901*HIGH DESERT HCMES   256-8434+5
 2040*BELSHERS TEXACO SRV256-3700
 2046*PIZZA PALACE        256-2207
      *STRAW HAT PIZZA PLC256-2207
 2056*ROMPREYS ARCO       256-0705 4
23135 KENNEDY ERNEST M    253-7279+5
      PEARSON PETER       253-3467+5
24770 HILL G L            253-3561+5
25004  XXXX               00
25277 TATUM E A           253-5247+5
25287 SCYDICK HARRY       253-2555
25307 ANDERSON DANNY L    253-2356+5
```

Target Street	Cross Street	Source
✓	-	Lusky Brothers

MAIN ST 1964

-20-

ATIONAL TRAILS HWY, W--FROM
EAST OF DELANEY RD, WEST

21423 BARSTOW ROVING
ROCKHOUNDS. . . .CL 5-8551
25104 FE CRULL RLTY
. . . . . .CL 6-4500
25104 FE CRULL. . . . . .CL 6-4500
25615 BARSTOW PK/REC-
REATION DEPT. . .CL 6-4261
25659 VALLEY ELEC . . . .CL 6-6565

##################

Target Street	Cross Street	Source
✓	-	Lusky Brothers

MAIN ST 1964

-20-

NATIONAL TRAILS HWY, E--FROM DELANEY RD, EAST, (ALSO KNOWN AS W HWY 66 AND W MAIN ST)

(SERVED BY
BARSTOW RT 1)

D JOHNSON
19026 HH LEY (PO BX 5). .CL 5-2022
21483 DESERT SIGNS
SIGN PNTR
(RT 1) . . . . .CL 5-8552
21483*WP THUESEN
(RT 1). . . . . .CL 5-8552
22210 D NAGEL (1/2)
24498 GATE CITY BEVER-
AGE DISTRS. . . .CL 6-6008
24520*LF HARVEY . . . . .CL 6-6138
24520 HARVEY TRANSP CO. .CL 6-6138
24544*GD ANDERSON . . . .CL 6-7822
24644 MIDWAY TRLR CT. . .CL 6-7345

Target Street	Cross Street	Source
✓	-	Lusky Brothers

MAIN ST 1964

1540 FISHERS FLYING
A-SERV. . . . . .CL 6-691
1550 A A GARAGE . . . .CL 5-371
1550 A-ONE BODY SHOP . .CL 6-373
1555 F EVANS. . . . . .CL 6-344
1555 DESERT SANDS
POTTERY . . . . .CL 6-344
1579 REDDING BILL
CHEVRON STA . . .CL 6-253
1580 FOSTERS OLD
FASHIONED FREEZE.CL 6-772
1600*LE RUSSELL. . . . .CL 6-275
1601 PHELPS AUTO SLS
USED CARS . . . .CL 6-276
25111 LENWOOD INN/
GROCERY . . . . .CL 6-493
25111 H LURING . . . . .CL 6-493
26980 KNUDSEN DAIRY
PRODTS CO . . . .CL 6-239
26998 WJ JAMISON
27017 HM ADAMS. . . . . .CL 6-753
27017 VACANT
27023*JH LEBLANC
27033 HS HEGWOOD. . . . .CL 6-389
27033 MOJAVE DRIVE IN
TAVERN. . . . . .CL 6-389

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

Inquiry Number: 5451720.6
October 11, 2018

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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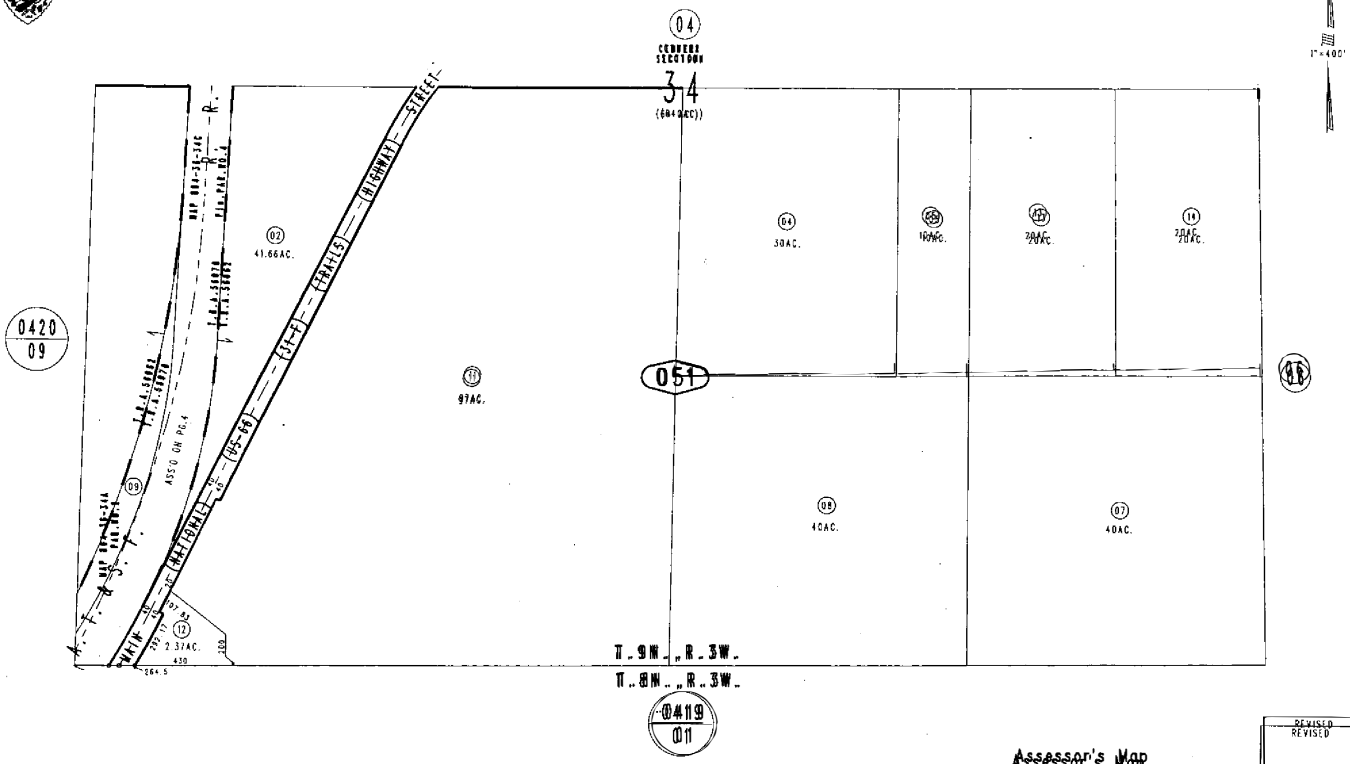
THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

S.11/22 SEC.3344, T.9N, R.3W., SBBM.

Borrow United
Tax Rate Area
56070,56062

0421-05



REVISED
REVISED

October 2003

Assessor's Map
Book 0421 Page 05
San Bernardino County

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

Inquiry Number: 5451720.7
October 12, 2018

EDR Environmental Lien and AUL Search

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

RESEARCH SOURCE

Source 1:

San Bernardino Recorder
San Bernardino, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	deed
Title is vested in:	Ellis E & Mariella B Reno Ellis E II & Wanda L Ren
Title received from:	Grace M Poole
Deed Dated	1/27/1987
Deed Recorded:	3/12/1987
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Ellis E & Mariella B Reno Ellis E II & Wanda L Reno
Parcel # / Property Identifier:	0421-051-02-0000
Comments:	See Exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

ESC 13002-D TTO

RECORDING REQUESTED BY

Continental Land Title Company

AND WHEN RECORDED MAIL TO

NAME Ellis E. Reno
Mariella B. Reno
Ellis E. Reno, II
Wanda L. Reno

STREET ADDRESS 7102 7th Avenue

CITY & STATE Hesperia, CA 92345

1 FEE	2 CODES	3 TAX	4 EXAM
5	2		
5 SMT	5 11 2 DMT		502
10	44.00		C

RECORDED IN OFFICIAL RECORDS
MAR 12 1987 AT 8
SAN BERNARDINO COUNTY, CALIF.

87-080200

SPACE ABOVE THIS LINE FOR RECORDER'S USE

APN 421 051 02

GRANT DEED (Individual)

THE UNDERSIGNED GRANTOR(s) DECLARE(s) TRANSFER TAX is $ 44.00

☒ computed on full value of property conveyed, or
☐ computed on full value less value of liens or encumbrances remaining at time of sale, and

FOR VALUE RECEIVED

Grace M. Poole, a married woman, who acquired title as Grace M. Crabtree, a widow

GRANT(S) to

Ellis E. Reno and Mariella B. Reno, husband and wife as joint tenants, as to an undivided 1/2 interest and Ellis E. Reno, II and Wanda L. Reno, husband and wife as joint tenants as to an undivided 1/2 interest

the below described real property in the state of California, county of San Bernardino, unincorporated area

All that portion of the Southwest 1/4 of Section 34, Township 9 North, Range 3 West, San Bernardino Meridian, according to Government Survey, MORE PARTICULARLY DESCRIBED ON "EXHIBIT A" ATTACHED HERETO AND MADE A PART HEREOF.

15561-09

Dated: January 29, 1987

STATE OF CALIFORNIA
COUNTY OF

On February 9, 1987

before me, the undersigned, a Notary Public in and for said State, personally appeared

Grace M. Poole

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same.

WITNESS my hand and official seal.

Signature Jeannine Marie Bowering

Grace M. Poole

Grace M. Poole

THIS AREA FOR OFFICIAL NOTARIAL SEAL
JEANNINE MARIE BOWERING
NOTARY PUBLIC - CALIFORNIA
My Commission Expires

MAIL TAX STATEMENTS TO ABOVE ADDRESS.

"EXHIBIT A"

87-080200

The Southwest 1/4 of Section 34, Township 9 North, Range 3 West, San Bernardino Base and Meridian, County of San Bernardino, State of California, according to Government Survey.

Saving and excepting all State and County highway and any portions in railroad right of way.

Also saving and excepting therefrom a strip of land of irregular width, being all that portion of the West 1/2 of the said Southwest 1/4 lying between the Northwesterly line of the existing 200 feet right of way of the Atchison, Topeka and Santa Fe Railway Company and a line which is concentric with and distant Westerly 100 feet measured radially from the following described relocated center line of the Eastbound Main Street of said Railroad Company; beginning at a point in the center line of the existing Eastbound Main Tract of said Railroad Company, distant Southwesterly 387.7 feet thereon from the intersection of said center line with the North line of said West 1/2 of the Southwest 1/4 of a point 530.8 feet Easterly on said North line from the Northwest corner thereof, said center line forming an angle of 86°29' to the Southwest with said North line; thence Southwesterly along a spiral curve concave Northwesterly, having ten 43-foot chords, consuming an angle of 2°41'15" and being tangent to said center line at said point of beginning; thence Southwesterly along a tangent curve of 4583.75 feet radius concave Northwesterly 1852.42 feet to an intersection with the West line of the West 1/2 of said Southwest 1/4 at a point distant Northerly 91.53 feet on said West line from the Southwest corner thereof, containing 3.17 acres, more or less.

Also saving and excepting therefrom that portion described as follows: Commencing at a point in the South line of said section where said South line intersects the Southeasterly corner that certain strip of land conveyed to the State of California by Deed recorded August 3, 1925, in Book 12 of Official Records, Page 338; said point being South 85°21'30" East 264.50 feet from the Southwest corner of said Section, said point also being the beginning of a curve to the left having a radius of 3044.93 feet, the tangent to said curve at said point bears south 31°58'22" West; thence along said Easterly line of said highway and along said curve through an angle of 5°29'52", 292.17 feet; thence continuing along said highway North 63°31'30" West 20 feet; thence continuing along said highway North 26°28'30" East 107.83 feet to a point; thence leaving said highway in a direct line to a point 200 feet due North of a point in the South line of said section distant thereon 430 feet Easterly from the point of beginning; thence South 200 feet to a point in the South line of said section 430 feet Easterly from the point of beginning.

Also saving and excepting therefrom that portion of said Southwest 1/4 described in Deed to Arthur C. Frisbie and Lillian V. Frisbie, husband and wife as joint tenants as to an undivided 1/2 interest and W. H. Casady, an unmarried man as to an undivided 1/2 interest, which Deed recorded July 1, 1955 in Book 3682, page 66, Official Records.

21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

Inquiry Number: 5451720.8
October 11, 2018

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Building Permit Report: Search Documentation

10/11/18

Site Name:
21880 MAIN ST
21880 MAIN ST
BARSTOW, CA 92311

EDR Inquiry # 5451720.8

Client Name:
TRC Environmental
17911 VON KARMAN AVE
IRVINE, CA 92614

Contact: Cassandra Fausel

Search Documentation

DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 10/11/18, EDR does not have access to building permits in the city where your target property is located (BARSTOW, CA).

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

APPENDIX C

FEMA FLOOD INSURANCE MAP

National Flood Hazard Layer FIRMette

FEMA

34°49'46.30"N

117°11'27.28"W

117°10'49.83"W

34°49'16.76"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/12/2018 at 4:46:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX D

RECORDS FROM THE COUNTY OF SAN BERNARDINO, PIMS

PACKAGE REPORTS AND AGENCY RECORDS REQUEST LETTERS

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

620 South "E" Street • San Bernardino, CA 92415-0153 • (909) 386-8401 • Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Divisio
sbcfire.org

Mark A. Hartwig
Fire Chief/Fire Warden

Michael A. Horton
Fire Marshal

October 23, 2018

18101105 Barstow Nrl TRC

TRC SOLUTIONS
17911 VON KARMAN AVE. SUITE #400
IRVINE, CA 92614

ATTENTION: **CASSANDRA FAUSEL**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
21880 MAIN STREET, BARSTOW, CALIFORNIA
APN: 0421-051-02-0000 (21880 NATIONAL TRAILS HWY, BARSTOW, CALIFORNIA)

This is to confirm that the OFM Hazardous Materials Division (HMD) has searched its records for any file(s) pertaining to the subject property, as described in your request, and finds that no records exist for the above site description(s).

Records maintained by OFM-HMD date back to mid-1980's. Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

Donna Juday

DONNA JUDAY
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

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Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

October 17, 2018

Ms. Cassie Fausel
TRC
17911 Von Karman Avenue, Suite 400
Irvine, CA 92614

21880 Main Street, Barstow, CA 92311
APN: 0421-051-02-0000
PR3-101118-04

Dear Ms. Fausel:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor.

If you have any questions or would like further information regarding your request, please contact me at (818) 717-6521.

Sincerely,

Robert Hardison

Robert Hardison/cs
Regional Records Coordinator

Printed on Recycled Paper

Fausel, Cassandra

From: Coale, Robin@Waterboards <robin.coale@waterboards.ca.gov>
Sent: Wednesday, October 24, 2018 9:01 AM
To: Fausel, Cassandra
Subject: RE: records request - 21880 Main Street, Barstow

Cassandra,

RE: records request - 21880 Main Street, Barstow

Water Board did not locate any files per your request.

Regards,

Robin A. Coale
Lahontan Regional Water Quality Control Board
15095 Amargosa Road, Bldg 2, Suite 210
Victorville, CA 92394

Ph: (760) 241-6467
robin.coale@waterboards.ca.gov

From: Fausel, Cassandra <CFausel@trcsolutions.com>
Sent: Friday, October 12, 2018 12:08 PM
To: Coale, Robin@Waterboards <robin.coale@waterboards.ca.gov>
Subject: RE: records request - 21880 Main Street, Barstow

Hi Robin,

It is not East Main Street. The parcel might be easiest to work with 0421-021-02-0000. I have attached a map for your convenience.

Best,

Cassie Fausel - Bretschger
Staff Environmental Scientist

17911 Von Karman Avenue, Suite 400, Irvine, CA 92614
T 949 341 7472 | F 949 727 7311 | C 949 236 9182
LinkedIn | Twitter | Blog | www.trcsolutions.com

From: Coale, Robin@Waterboards [mailto:robin.coale@waterboards.ca.gov]
Sent: Friday, October 12, 2018 12:05 PM

385 N. Arrowhead Avenue, 2nd Floor, San Bernardino, CA 92415 | Phone: 800.442.2283 Fax: 909.387.4323

www.SBCounty.gov

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

Trudy Raymundo
Director

Corwin Porter, MPH, REHS
Assistant Director

Maxwell Ohikhuare, MD
Health Officer

Josh Dugas, REHS
Division Chief

October 30, 2018

Cassandra Fausel
TRC Solutions
17911 Von Karman Avenue, Suite 400
Irvine, CA 92614

EHS has completed the research on your records request received on October 18, 2018. Enclosed please find one record relating to your request.

If you have any questions or concerns, please contact me at (800) 442-2283.

Sincerely,

Raúl Robles, Office Assistant III
385 North Arrowhead Avenue, 2nd Floor
San Bernardino, CA 92415-0160

RR:rr

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Gary McBride
Chief Executive Officer

EHS2018-56

385 N. Arrowhead Ave. 2nd Floor San Bernardino, CA 92415 | Phone: 800.442.2283 - Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/ehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

REQUEST TO INSPECT/REPRODUCE PUBLIC RECORDS

Return to any of the following offices:
385 N. Arrowhead Ave. 2nd Floor, San Bernardino 92415-0160
15900 Smoke Tree St., Ste. 131, Hesperia 92345
8575 Haven Ave., Ste. 100, Rancho Cucamonga 91730

TO BE COMPLETED BY REQUESTER			
INFORMATION FOR RECORDS REQUESTED			
Facility Name: (Business or Apartment Complex name) Ellis Remo Property			
Location Address: 21480 Main Street (Nearest Cross Street)	**City:** Barstow	**State:** CA	**Zip:** 92311
Case/File Number: (If known)	**Inspector:** (If known)		
Indicate time frame of information requested: (month/year or date of inspection)			
From: 1980 **To:** present	**From:** **To:**	**From:** **To:**	
Specific information requested: (File, inspection, report, complaint, etc.)			
Any septic tank or well installation or abandonment permits for parcel 0421-051-02-000.			
NOTE: EACH REQUESTER AND/OR FILE MUST HAVE A SEPARATE FORM COMPLETED. FOR A LIST REQUEST PLEASE CALL (800) 442-2283.			
FEES			
Copy Fee: $.10 Per Page			
Certified Copies: Additional $.22 Per Page			
REQUESTER INFORMATION			
Requester Name: Cassandra Fausel (Include affiliation, i.e. business name, law office, owner, private citizen, employee, etc.)			
Requester Address: 7911 Von Karman Ave Suite 1000	**City:** Irvine	**State:** CA	**Zip:** 92614
E-mail Address: (Preferred method of delivery) cfausel@trcsolutions.com			
Phone Number: (To notify when copies/files are ready) 949-236-9182			
OFFICE USE ONLY			
PROGRAM	**DATE**		
PAID $	**#PGS**		
RECEIPT #	**RECEIVED BY**		

10/18/18 Rec'd
Office (11) Rec'd
Fausel

County of San Bernardino – Environmental Public Works Agency 09N/03W34M01

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

385 North Arrowhead Avenue • San Bernardino, CA 92415-0160

WELL PERMIT

Do Not Fill In

Permit No. 05028902

Expiration 5-2-90

FF 6-20-89 03

FA 6-20-89

SN

PLEASE PRINT:

1. OWNER: Name [redacted]

Mailing Address [redacted]

City [redacted] Zip [redacted]

Phone No.

2. DATE OF WORK (approximate):

Start 4-24-89 Complete

3. WELL DRILLER (Check One):

☐ Owner ☒ Contractor Wallis Water Systems (Name)

4. WELL USE (check):

☐ Community ☐ Industrial

☒ Individual ☐ Test

☐ Agricultural ☐ Other

☐ Dairy ☐ Horizontal

5. TYPE OF WORK (check):

☒ New ☐ Reconstruction ☐ Destruction

Items 6 through 10 to be estimated for new wells, and exact for all other wells.

6. ANNULAR SEAL: Depth 20 ft.

Furnished by: ☐ Owner ☒ Contractor

☐ Driven Conductor Dia. in., Well (Gage)

☐ Sealing Material Cement, Thickness 2 in.

7. DEPTH OF WELL (feet):

Proposed 125 Existing

DIAMETER OF BORE (in.): 12

8. CASING INSTALLED:

☐ Steel ☒ Plastic ☐ Other

From (ft.)	To (ft.)	Dia. (in.)	Wall (Gage)
0	125	6	CL 160

GRAVEL PACK: ☒ Yes ☐ No

From 20 to 125 ft.

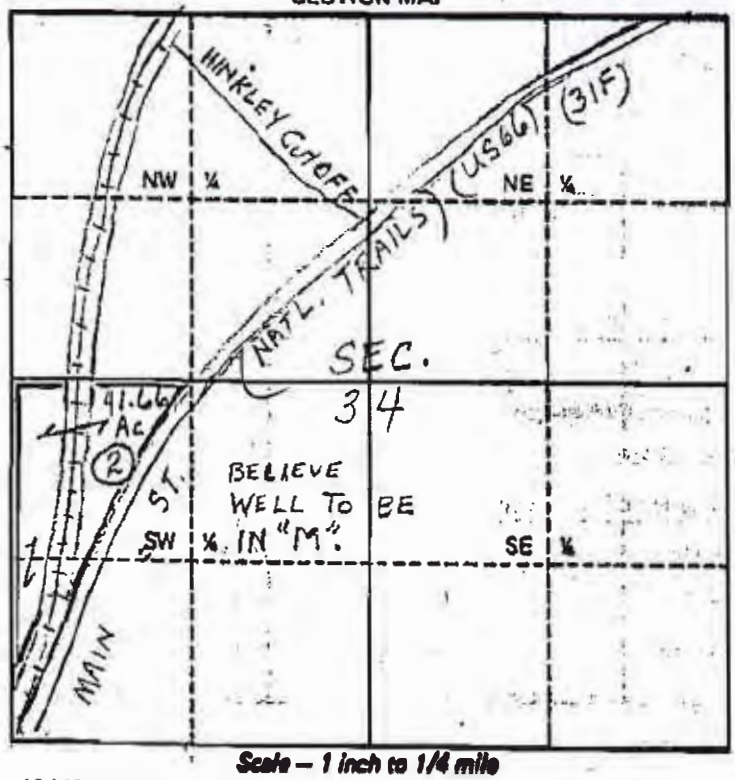
9. PERFORATIONS (if applicable):

From 40 to 125 ft.

10. SEALED ZONES (if applicable):

From 0 to 20 ft.

SECTION MAP



Scale – 1 inch to 1/4 mile

11. GENERAL LOCATION MAP: 243A-6C 283-C1

(a) Sketch location of well, name(s) and location of road(s) on section map.

(b) Township 9N N/S Range 3W E/W

Section 34

(c) Assessor's Parcel No. 421-051-02

(d) Solid or liquid waste disposal site within two miles?

☐ Yes ☒ No

Location:

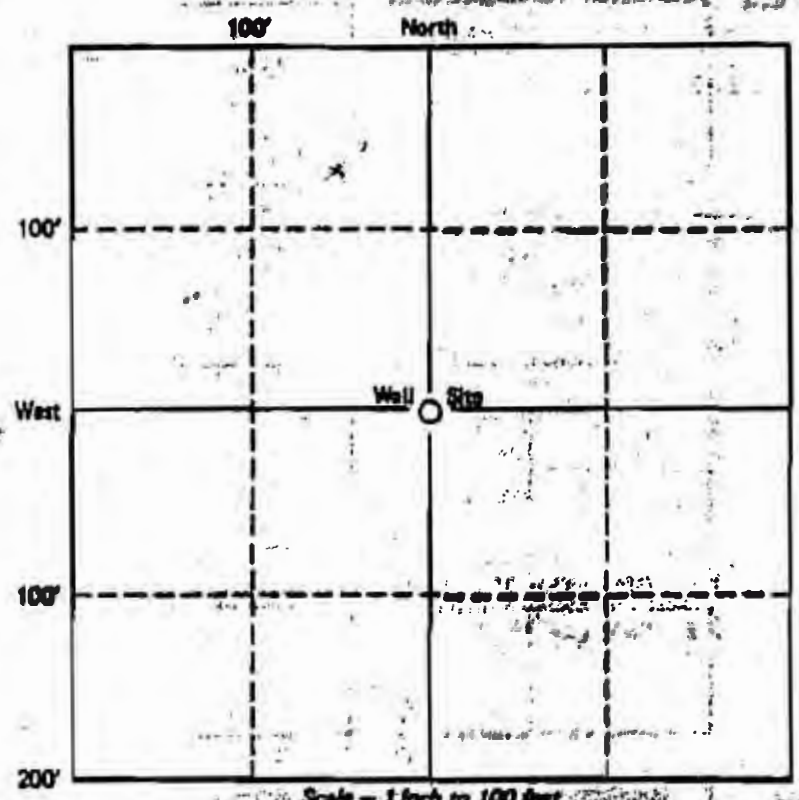
Do Not Fill In

Fee Stamp	Date Stamp
DATE 5-2-89	
AMOUNT 100.00	
RECEIPT NO. 05028	42-2
BY: Ellis Reno	#140
PAID	

63-14785-631 Rev. 11/88

Continue on Reverse Side

NO M.A.V.



12. PLOT PLAN:

(a) In perspective to the well site, sketch and label the following items: well lot property lines, other wells *(include abandoned wells)*, sewage disposal systems *(sewers, septic tanks, leaching fields, seepage pits, cesspools)*, lakes and ponds, water courses and animals or fowl kept.

(b) Indicate the distance in feet, of any of the following which are within 200 ft. of the well site:

Other wells _____
Sewers _____
Septic tanks _____
Leaching fields _____
Seepage pits _____
Cesspools _____
Lakes and ponds _____
Water courses _____
Animals or fowl kept _____

13. I have read this application and agree to comply with all laws regulating the type of work being performed. The California Labor Code requires Workers' Compensation Insurance as a prerequisite to permit issuance unless the applicant signs the following certificate:

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation laws of California.

Owner's Signature [redacted] Date 4-14-89

☐ Contractor's Signature [redacted] Date 4-14-89 Reg. No. _____

DISPOSITION OF PERMIT
(Do Not Fill In)

☑ Approved subject to the following:

A. Notify the Department Clark Heath (619) 243-8141, twenty-four (24) hours in advance to make an inspection of the following operations:

☐ Prior to sealing of the annular space or filling of the conductor casing.

☐ Verify the depth of the conductor (outer) casing prior to further drilling and installation of the inner casing.

☑ After installation of the surface protective slab and pumping equipment.

☐ During destruction of wells, prior to pouring the sealing material.

B. Submit to the Department within thirty (30) days after completion of work, a copy of:

☑ Water Well Driller's Report ☐ Bacteriological Analysis ☐ Inorganic Chemical Analysis

C. Other _____

☐ DENIED _____

RECEIVED APR 17 1989 ENVIRONMENTAL HEALTH SERVICES

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

QUADRUPLICATE
Use to comply with local requirements

Do not fill in

No. 277030

Notice of Intent No. _____
Local Permit No. or Date 05028902

State Well No. 1AN/03W34M01
Other Well No. _____

(1) OWNER: Name [redacted]
Address
City [redacted] ZIP [redacted]

(2) LOCATION OF WELL (See instructions):
County San Bernardino Owner's Well Number _____
Well address if different from above A.P. 0421-051-02
Township 9N Range 3W Section 34
Distance from cities, roads, railroads, fences, etc. _____

WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☐ Deepening ☐ X
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐ X
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐
(Describe)

(5) EQUIPMENT:
Rotary ☐ X Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ X No ☐ Size 5/16
Diameter of bore 12"
Packed from 20 to 130 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☐ X Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	132	6	CL160	50	132	3/32x5

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☐ X No ☐ If yes, to depth 20 ft.
Were strata sealed against pollution? Yes ☐ No ☐ X Interval _____ ft.
Method of sealing Concrete

(10) WATER LEVELS:
Depth of first water, if known _____ ft.
Standing level after well completion 44 ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☐ X If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☐ No ☐ X If yes, by whom? _____
Was electric log made Yes ☐ No ☐ X If yes, attach copy to this report

(12) WELL LOC: Total depth _____ ft. Completed depth 132 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	Top soil
2	132	sand and gravel

Work started _____ 19__ Completed 6-9 1989

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed _____ (Well Driller)
NAME Wallig Water Systems, Inc. (Person, firm, or corporation) (Typed or printed)
Address 34474 Lenwood Road
City Barstow CA ZIP 92311
License No. 432905 Date of this report _____

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DWR 188 (REV. 12-86) 86 96135

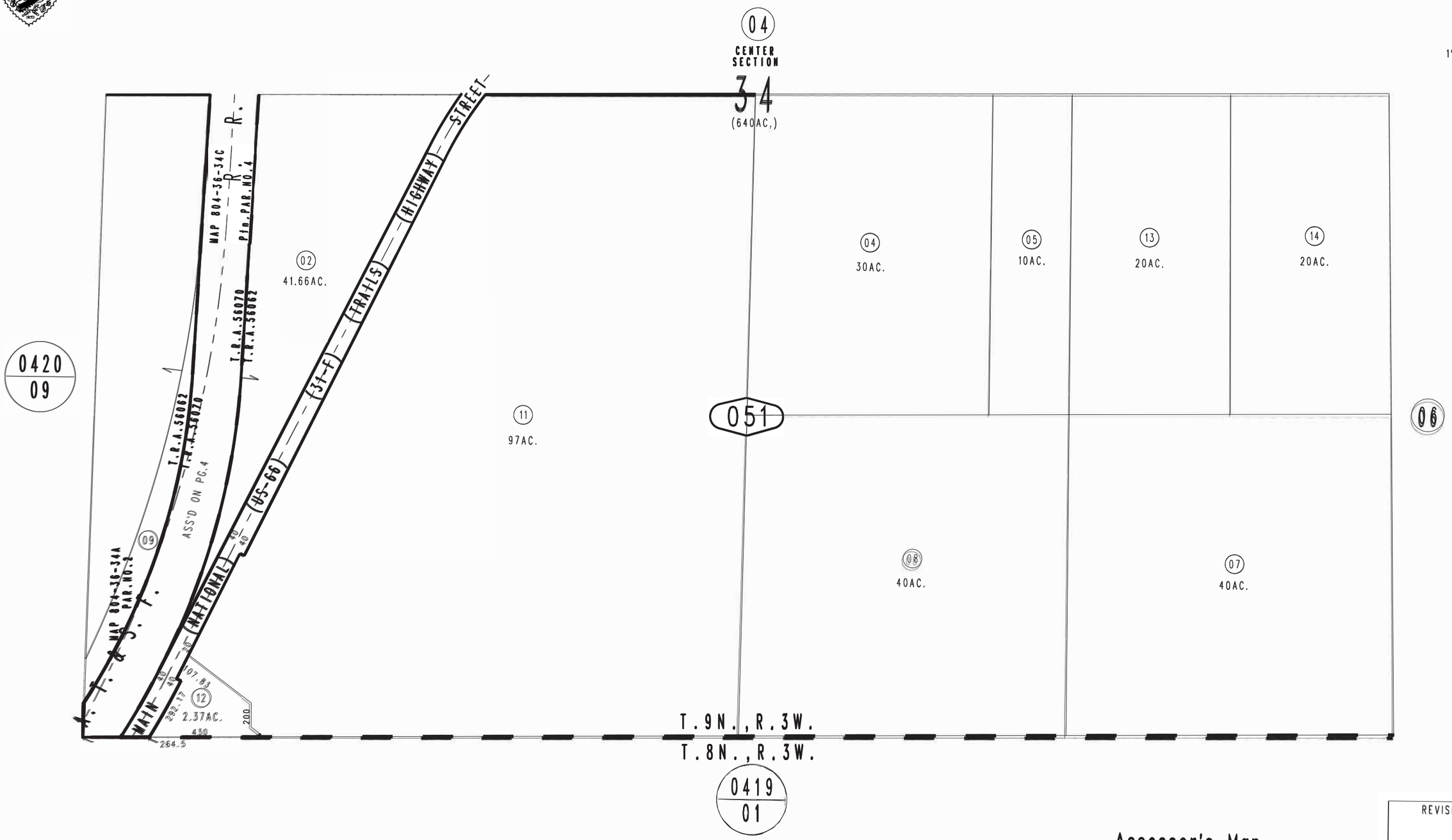
CONFIDENTIAL
NOT FOR PUBLIC USE
WATER CODE SEC. 13752

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

S.1/2 SEC.34, T.9N.,R.3W., S.B.B.&M.

Barstow Unified
Tax Rate Area
56062 56070

0421 - 05



October 2003

Assessor's Map
Book 0421 Page 05
San Bernardino County

REVISED

Property Information Management System

San Bernardino County

Office of the Assessor

PIMS PACKAGE REPORT FOR PARCEL 0421-051-02-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address RENO, ELLIS E ETAL
RENO, ELLIS E II
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 06/28/2004

Parcel 0421051020000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 25.001 ACRES AND OVER
Land Type SINGLE FAMILY RESIDENTIAL
District HESPERIA
Resp Group REAL PROPERTY
Resp Unit RES ZONE(MAX 14 UTS) &USE EX HPC/MHM(1-14 UTS,CHURC

Current Owners

Name RENO, ELLIS E
R/I TENANCY IN COMMON
% Int 25.0000000
Type BILLED OWNER
Acquisition Date NONE
Document Date 03/12/1987
Inactive Date NONE

Document Numbers
8708020000000

Name RENO, MARIELLA B (HW/ELLIS E0
R/I TENANCY IN COMMON
% Int 25.0000000
Type OTHER OWNER
Acquisition Date NONE
Document Date 03/12/1987
Inactive Date NONE

Document Numbers
8708020000000

		Document Numbers
Name	**RENO, ELLIS E II**	
R/I	TENANCY IN COMMON	8708020000000
% Int	25.0000000	
Type	JOINT MAIL OWNER	
Acquisition Date	NONE	
Document Date	03/12/1987	
Inactive Date	NONE	

		Document Numbers
Name	**RENO, WANDA L (HW/ELLIS II)**	
R/I	TENANCY IN COMMON	8708020000000
% Int	25.0000000	
Type	OTHER OWNER	
Acquisition Date	NONE	
Document Date	03/12/1987	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	0421051020000			

Legal Description

PTN SW 1/4 SEC 34 TP 9N R 3W LY1NG W OF STATE HGWY EX RR R/W 41.66 AC M/L

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Prior Roll History

Year: 2018

TRA	56062	**Land Value**	44,159
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	44,159
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**44,159**

Year: 2017

TRA	56062	**Land Value**	43,293
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	43,293
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**43,293**

Year: 2016

TRA	56062	**Land Value**	42,444
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	42,444
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**42,444**

Year: 2015

TRA	56062	**Land Value**	41,806
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	41,806
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**41,806**

Year: 2014

TRA	56062	**Land Value**	40,987
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	40,987
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**40,987**

Year: 2013

TRA	56062	**Land Value**	40,802
Supplement	YES	**Improvement Value**	55,357
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	96,159
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**96,159**

Year: 2012

TRA	56062	**Land Value**	40,002
Supplement	NO	**Improvement Value**	54,272
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	94,274
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**94,274**

Year: 2011

TRA	56062	**Land Value**	39,218
Supplement	NO	**Improvement Value**	53,208
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	92,426
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**92,426**

Year: 2010

TRA	56062	**Land Value**	38,925
Supplement	NO	**Improvement Value**	52,810
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	91,735
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**91,735**

Year: 2009

TRA	56062	**Land Value**	39,017
Supplement	NO	**Improvement Value**	52,935
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	91,952
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**91,952**

Year: 2008

TRA	56062	**Land Value**	38,252
Supplement	NO	**Improvement Value**	51,897
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	90,149
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**90,149**

Year: 2007

TRA	56062	**Land Value**	37,502
Supplement	NO	**Improvement Value**	50,879
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	88,381
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**88,381**

Year: 2006

TRA	56062	**Land Value**	36,767
Supplement	NO	**Improvement Value**	49,881
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	86,648
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**86,648**

Year: 2005

TRA	56062	**Land Value**	36,046
Supplement	NO	**Improvement Value**	48,903
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	84,949
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**84,949**

Year: 2004

TRA	56062	**Land Value**	35,339
Supplement	NO	**Improvement Value**	47,944
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	83,283
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**83,283**

Year: 2003

TRA	56062	**Land Value**	34,691
Supplement	NO	**Improvement Value**	47,065
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	81,756
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**81,756**

Year: 2002

TRA	56062	**Land Value**	34,011
Supplement	NO	**Improvement Value**	46,142
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	80,153
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**80,153**

Year: 2001

TRA	56062	**Land Value**	33,344
Supplement	NO	**Improvement Value**	45,237
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	78,581
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**78,581**

Year: 2000

TRA	56062	**Land Value**	32,690
Supplement	NO	**Improvement Value**	44,350
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	77,040
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**77,040**

Year: 1999

TRA	56062	**Land Value**	32,049
Supplement	NO	**Improvement Value**	43,480
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	75,529
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**75,529**

Year: 1998

TRA	56062	**Land Value**	31,467
Supplement	NO	**Improvement Value**	42,690
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	74,157
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**74,157**

Year: 1997

TRA	56062	**Land Value**	30,850
Supplement	NO	**Improvement Value**	41,853
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	72,703
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**72,703**

Year: 1996

TRA	56062	**Land Value**	30,245
Supplement	NO	**Improvement Value**	41,032
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	71,277
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**71,277**

Year: 1995

TRA	56062	**Land Value**	29,913
Supplement	NO	**Improvement Value**	40,581
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	70,494
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**70,494**

Year: 1994

TRA	56062	**Land Value**	29,561
Supplement	NO	**Improvement Value**	40,104
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	69,665
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**69,665**

Year: 1993

TRA	56062	**Land Value**	28,981
Supplement	NO	**Improvement Value**	39,318
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	68,299
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**68,299**

Year: 1992

TRA	56062	**Land Value**	28,413
Supplement	NO	**Improvement Value**	38,547
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	66,960
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**66,960**

Year: 1991

TRA	56062	**Land Value**	27,856
Supplement	NO	**Improvement Value**	37,791
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	65,647
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**65,647**

Year: 1990

TRA	56062	**Land Value**	27,310
Supplement	NO	**Improvement Value**	37,050
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	64,360
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**64,360**

Year: 1989

TRA	56062	**Land Value**	26,775
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	26,775
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**26,775**

Year: 1988

TRA	56062	**Land Value**	30,600
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	RENO, ELLIS E	**Total Penalties**	0
Joint Owner	RENO, ELLIS E II	**Total Value**	30,600
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**30,600**

Year: 1987

TRA	56062	**Land Value**	9,055
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	CRABTREE, R V	**Total Penalties**	0
Joint Owner	CRABTREE, GRACE M	**Total Value**	9,055
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**9,055**

Year: 1986

TRA	56062	**Land Value**	8,877
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	CRABTREE, R V	**Total Penalties**	0
Joint Owner	CRABTREE, GRACE M	**Total Value**	8,877
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,877**

Year: 1985

TRA	56062	**Land Value**	8,703
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	CRABTREE, R V	**Total Penalties**	0
Joint Owner	CRABTREE, GRACE M	**Total Value**	8,703
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,703**

Year: 1984

TRA	56062	**Land Value**	8,532
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	CRABTREE, R V	**Total Penalties**	0
Joint Owner	CRABTREE, GRACE M	**Total Value**	8,532
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,532**

Year: 1983

TRA	56062	**Land Value**	8,365
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	CRABTREE, R V	**Total Penalties**	0
Joint Owner	CRABTREE, GRACE M	**Total Value**	8,365
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,365**

Year: 1982

TRA	56062	**Land Value**	8,282
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner	CRABTREE, R V	**Total Penalties**	0
Joint Owner	CRABTREE, GRACE M	**Total Value**	8,282
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,282**

Year: 1981

TRA	0	**Land Value**	8,120
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	8,120
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**8,120**

Year: 1980

TRA	0	**Land Value**	1,990
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	1,990
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**1,990**

Year: 1979

TRA	0	**Land Value**	1,950
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	1,950
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**1,950**

Year: 1978

TRA	0	**Land Value**	1,910
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	1,910
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**1,910**

Year: 1976

TRA	0	**Land Value**	1,800
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	0421051020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	1,800
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**1,800**

Parcel History

Event Date	12/30/2013	**Multi Parcel List**
Event Group/Type	REMOVE VALUE - IMPS MOVED OFF OR DEMOLISHED	
Multi Parcel	No	

Event Date	12/31/2008	**Multi Parcel List**
Event Group/Type	REVIEW - PROP 8 INITIATED BY TAXPAYER	
Multi Parcel	No	

Event Date	07/20/1989	**Multi Parcel List**
Event Group/Type	NEW CONST - WORKED IN OLD SYSTEM	
Multi Parcel	No	

Event Date	03/12/1987	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	03/12/1987	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	02/28/1973	**Multi Parcel List**
Event Group/Type	CREATE - WORKED IN OLD SYSTEM (NONREPAR)	
Multi Parcel	No	

Ownership History

Owner Name: RENO, MARIELLA B (HW/ELLIS E0

		Document Numbers
R/I	TENANCY IN COMMON	8708020000000
% Int	25.0000000	
Type	OTHER OWNER	
Acquisition Date	NONE	
Document Date	03/12/1987	
Inactive Date	NONE	

Owner Name: RENO, WANDA L (HW/ELLIS II)

		Document Numbers
R/I	TENANCY IN COMMON	8708020000000
% Int	25.0000000	
Type	OTHER OWNER	
Acquisition Date	NONE	
Document Date	03/12/1987	
Inactive Date	NONE	

Owner Name: RENO, ELLIS E

		Document Numbers
R/I	TENANCY IN COMMON	8708020000000
% Int	25.0000000	
Type	BILLED OWNER	
Acquisition Date	NONE	
Document Date	03/12/1987	
Inactive Date	NONE	

Owner Name: RENO, ELLIS E II

		Document Numbers
R/I	TENANCY IN COMMON	8708020000000
% Int	25.0000000	
Type	JOINT MAIL OWNER	
Acquisition Date	NONE	
Document Date	03/12/1987	
Inactive Date	NONE	

Owner Name: CRABTREE, GRACE M

		Document Numbers
R/I	SOLE OWNER	
% Int	100.0000000	8708019800000
Type	BILLED OWNER	
Acquisition Date	07/08/1957	
Document Date	03/12/1987	
Inactive Date	03/11/1987	

Owner Name: CRABTREE, GRACE M

		Document Numbers
R/I	UNKNOWN	
% Int	0.0000000	
Type	JOINT MAIL OWNER	
Acquisition Date	NONE	
Document Date	NONE	
Inactive Date	03/11/1987	

Owner Name: CRABTREE, R V

		Document Numbers
R/I	UNKNOWN	
% Int	0.0000000	
Type	BILLED OWNER	
Acquisition Date	NONE	
Document Date	NONE	
Inactive Date	03/11/1987	

Supplement History

Supplement Date: 12/30/2013

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	IMPROVEMENT REMOVED
Supp Year	2013	**New Land**	40,802
Revised IND		**New Imprv**	0
Corrected Date		**Old Land**	40,802
Correction Code		**Old Imprv**	55,357
Legal Status	SECURED	**New HOX**	0
TRA	56062	**Old HOX**	0
NOPIC Date	01/26/2014	**Supp HOX**	0
Extract Date	05/02/2014	**Special Exem**	0
Months Prorated	6	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	0421051020000	**Construction in Progress**	0
		Net Value	**(55,357)**
Billed Owner	RENO, ELLIS E		
Joint Owner	RENO, ELLIS E II		

APPENDIX E

LABORATORY REPORTS

ANALYTICAL REPORT

November 12, 2018

TRC - BNSF Region 4

Sample Delivery Group:	L1040274
Samples Received:	11/01/2018
Project Number:	
Description:	BNSF - Ellis Reno - Barstow
Report To:	Cassie Fausel 17911 Von Karman Ave, Ste 400 Irvine, CA 92614

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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B1-0 L1040274-01 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 10:09 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192006	1	11/06/18 13:17	11/06/18 13:31	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:38	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:36	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1	10/30/18 10:09	11/07/18 08:57	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1	10/30/18 10:09	11/03/18 18:18	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	100	11/03/18 12:52	11/05/18 10:29	AAT
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 11:59	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 22:50	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	20	11/07/18 09:37	11/08/18 09:17	DMG

B1-5 L1040274-02 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 10:34 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192006	1	11/06/18 13:17	11/06/18 13:31	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:41	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:39	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1	10/30/18 10:34	11/07/18 09:21	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1.08	10/30/18 10:34	11/03/18 18:37	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1192865	1.08	10/30/18 10:34	11/07/18 17:14	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 07:23	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 12:12	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 19:35	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 17:34	DMG

B1-10 L1040274-03 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 10:40 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192006	1	11/06/18 13:17	11/06/18 13:31	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:43	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:42	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1.24	10/30/18 10:40	11/07/18 09:45	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1.55	10/30/18 10:40	11/03/18 18:56	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 04:51	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 12:24	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 19:51	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 17:55	DMG

B1-15 L1040274-04 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 10:48 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192006	1	11/06/18 13:17	11/06/18 13:31	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:46	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:44	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1	10/30/18 10:48	11/07/18 10:09	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	3.13	10/30/18 10:48	11/03/18 19:14	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 05:04	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 14:30	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 12:42	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 20:06	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 18:16	DMG

B1-20 L1040274-05 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 10:52 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192006	1	11/06/18 13:17	11/06/18 13:31	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:49	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:47	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1.37	10/30/18 10:52	11/07/18 10:34	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	2.1	10/30/18 10:52	11/03/18 19:33	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 05:21	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 14:42	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 12:55	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 20:21	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 18:37	DMG

B2-0 L1040274-06 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 08:47 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192006	1	11/06/18 13:17	11/06/18 13:31	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:51	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:55	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1.13	10/30/18 08:47	11/07/18 10:58	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1192865	1.48	10/30/18 08:47	11/07/18 17:33	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	20	11/03/18 12:52	11/07/18 00:49	KME
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	5	11/03/18 12:52	11/05/18 08:38	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 13:52	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 12:30	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	20	11/07/18 12:38	11/09/18 22:35	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 18:58	DMG
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	20	11/07/18 09:37	11/08/18 10:20	DMG

B2-5 L1040274-07 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 09:15 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192007	1	11/06/18 16:50	11/06/18 17:08	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:54	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 16:58	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1	10/30/18 09:15	11/07/18 11:22	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	2.08	10/30/18 09:15	11/03/18 20:11	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 07:07	KME
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	5	11/03/18 12:52	11/07/18 01:01	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 14:55	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 13:07	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 20:36	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 19:19	DMG
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	20	11/07/18 09:37	11/08/18 09:59	DMG

B2-10 L1040274-08 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 09:28 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192007	1	11/06/18 16:50	11/06/18 17:08	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:56	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 17:00	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1.5	10/30/18 09:28	11/07/18 11:46	ACE

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

B2-10 L1040274-08 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 09:28 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1.57	10/30/18 09:28	11/03/18 20:30	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 05:35	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 15:07	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 13:20	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 20:50	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 19:40	DMG

B2-15 L1040274-09 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 09:37 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192007	1	11/06/18 16:50	11/06/18 17:08	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 10:59	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 17:03	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1.08	10/30/18 09:37	11/07/18 12:11	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1.55	10/30/18 09:37	11/03/18 20:49	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	1	11/03/18 12:52	11/05/18 06:36	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 15:20	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 13:32	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 21:05	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/07/18 20:01	DMG

B3-0 L1040274-10 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 12:12 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192007	1	11/06/18 16:50	11/06/18 17:08	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 11:11	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 17:06	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1.08	10/30/18 12:12	11/07/18 12:35	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1	10/30/18 12:12	11/03/18 21:08	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	100	11/03/18 12:52	11/05/18 10:44	AAT
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	100	11/03/18 12:52	11/07/18 01:15	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 11:47	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 23:05	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	20	11/07/18 09:37	11/07/18 21:04	DMG

B3-5 L1040274-11 Solid

Collected by: Cassie Fausel | Collected date/time: 10/30/18 11:40 | Received date/time: 11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1192007	1	11/06/18 16:50	11/06/18 17:08	JD
Mercury by Method 7471A	WG1191289	1	11/04/18 16:41	11/05/18 11:14	JDG
Metals (ICP) by Method 6010B	WG1191040	1	11/04/18 05:47	11/05/18 17:08	ST
Volatile Organic Compounds (GC) by Method 8015	WG1192324	1	10/30/18 11:40	11/07/18 14:36	ACE
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190981	1.12	10/30/18 11:40	11/03/18 21:27	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	25	11/03/18 12:52	11/07/18 13:36	TJD
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1190881	5	11/03/18 12:52	11/07/18 01:30	KME
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/08/18 15:32	VKS
Pesticides (GC) by Method 8081	WG1192371	1	11/07/18 12:38	11/09/18 13:45	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1192371	1	11/07/18 12:38	11/09/18 22:20	RP
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	1	11/07/18 09:37	11/08/18 09:38	DMG
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1192376	20	11/07/18 09:37	11/08/18 10:41	DMG

GW-1 L1040274-12 GW

Collected by	Collected date/time	Received date/time
Cassie Fausel	10/30/18 11:45	11/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1190187	1	11/02/18 10:16	11/04/18 15:05	TCT
Metals (ICPMS) by Method 6020	WG1190861	1	11/03/18 13:53	11/04/18 19:33	LD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1190758	1	11/02/18 23:46	11/02/18 23:46	BMB
OP Pesticides by Method 8141	WG1190371	1	11/03/18 11:26	11/06/18 08:10	HMH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1191290	1	11/06/18 05:40	11/06/18 17:15	AO

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.1		1	11/06/2018 13:31	WG1192006

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0243	1	11/05/2018 10:38	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.43	1	11/05/2018 16:36	WG1191040
Arsenic	ND		2.43	1	11/05/2018 16:36	WG1191040
Barium	48.2		0.609	1	11/05/2018 16:36	WG1191040
Beryllium	ND		0.243	1	11/05/2018 16:36	WG1191040
Cadmium	ND		0.609	1	11/05/2018 16:36	WG1191040
Chromium	5.92		1.22	1	11/05/2018 16:36	WG1191040
Cobalt	3.25		1.22	1	11/05/2018 16:36	WG1191040
Copper	52.9		2.43	1	11/05/2018 16:36	WG1191040
Lead	20.6		0.609	1	11/05/2018 16:36	WG1191040
Molybdenum	3.66		0.609	1	11/05/2018 16:36	WG1191040
Nickel	4.65		2.43	1	11/05/2018 16:36	WG1191040
Selenium	ND		2.43	1	11/05/2018 16:36	WG1191040
Silver	ND		1.22	1	11/05/2018 16:36	WG1191040
Thallium	ND		2.43	1	11/05/2018 16:36	WG1191040
Vanadium	18.9		2.43	1	11/05/2018 16:36	WG1191040
Zinc	118		6.09	1	11/05/2018 16:36	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	0.927		0.122	1	11/07/2018 08:57	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*99.1*		*77.0-120*		*11/07/2018 08:57*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0304	1	11/03/2018 18:18	WG1190981
Acrylonitrile	ND		0.0152	1	11/03/2018 18:18	WG1190981
Benzene	ND		0.00122	1	11/03/2018 18:18	WG1190981
Bromobenzene	ND		0.0152	1	11/03/2018 18:18	WG1190981
Bromodichloromethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
Bromoform	ND		0.0304	1	11/03/2018 18:18	WG1190981
Bromomethane	ND		0.0152	1	11/03/2018 18:18	WG1190981
n-Butylbenzene	ND		0.0152	1	11/03/2018 18:18	WG1190981
sec-Butylbenzene	ND		0.0152	1	11/03/2018 18:18	WG1190981
tert-Butylbenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
Carbon tetrachloride	ND		0.00609	1	11/03/2018 18:18	WG1190981
Chlorobenzene	ND		0.00304	1	11/03/2018 18:18	WG1190981
Chlorodibromomethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
Chloroethane	ND		0.00609	1	11/03/2018 18:18	WG1190981
Chloroform	ND		0.00304	1	11/03/2018 18:18	WG1190981
Chloromethane	ND		0.0152	1	11/03/2018 18:18	WG1190981
2-Chlorotoluene	ND		0.00304	1	11/03/2018 18:18	WG1190981
4-Chlorotoluene	ND		0.00609	1	11/03/2018 18:18	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0304	1	11/03/2018 18:18	WG1190981
1,2-Dibromoethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
Dibromomethane	ND		0.00609	1	11/03/2018 18:18	WG1190981
1,2-Dichlorobenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
1,3-Dichlorobenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
1,4-Dichlorobenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
Dichlorodifluoromethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,1-Dichloroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,2-Dichloroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,1-Dichloroethene	ND		0.00304	1	11/03/2018 18:18	WG1190981
cis-1,2-Dichloroethene	ND		0.00304	1	11/03/2018 18:18	WG1190981
trans-1,2-Dichloroethene	ND		0.00609	1	11/03/2018 18:18	WG1190981
1,2-Dichloropropane	ND		0.00609	1	11/03/2018 18:18	WG1190981
1,1-Dichloropropene	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,3-Dichloropropane	ND		0.00609	1	11/03/2018 18:18	WG1190981
cis-1,3-Dichloropropene	ND		0.00304	1	11/03/2018 18:18	WG1190981
trans-1,3-Dichloropropene	ND		0.00609	1	11/03/2018 18:18	WG1190981
2,2-Dichloropropane	ND	J4	0.00304	1	11/03/2018 18:18	WG1190981
Di-isopropyl ether	ND		0.00122	1	11/03/2018 18:18	WG1190981
Ethylbenzene	ND		0.00304	1	11/03/2018 18:18	WG1190981
Hexachloro-1,3-butadiene	ND		0.0304	1	11/03/2018 18:18	WG1190981
Isopropylbenzene	ND		0.00304	1	11/03/2018 18:18	WG1190981
p-Isopropyltoluene	ND		0.00609	1	11/03/2018 18:18	WG1190981
2-Butanone (MEK)	ND		0.0304	1	11/03/2018 18:18	WG1190981
Methylene Chloride	0.0452		0.0304	1	11/03/2018 18:18	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0304	1	11/03/2018 18:18	WG1190981
Methyl tert-butyl ether	ND		0.00122	1	11/03/2018 18:18	WG1190981
Naphthalene	ND		0.0152	1	11/03/2018 18:18	WG1190981
n-Propylbenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
Styrene	ND		0.0152	1	11/03/2018 18:18	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
Tetrachloroethene	ND		0.00304	1	11/03/2018 18:18	WG1190981
Toluene	0.0239		0.00609	1	11/03/2018 18:18	WG1190981
1,2,3-Trichlorobenzene	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,2,4-Trichlorobenzene	ND		0.0152	1	11/03/2018 18:18	WG1190981
1,1,1-Trichloroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,1,2-Trichloroethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
Trichloroethene	ND		0.00122	1	11/03/2018 18:18	WG1190981
Trichlorofluoromethane	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,2,3-Trichloropropane	ND		0.0152	1	11/03/2018 18:18	WG1190981
1,2,4-Trimethylbenzene	0.00630		0.00609	1	11/03/2018 18:18	WG1190981
1,2,3-Trimethylbenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
Vinyl chloride	ND		0.00304	1	11/03/2018 18:18	WG1190981
1,3,5-Trimethylbenzene	ND		0.00609	1	11/03/2018 18:18	WG1190981
Xylenes, Total	0.0197		0.00791	1	11/03/2018 18:18	WG1190981
(S) Toluene-d8	*121*		*75.0-131*		*11/03/2018 18:18*	WG1190981
(S) Dibromofluoromethane	*64.8*	J2	*65.0-129*		*11/03/2018 18:18*	WG1190981
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*11/03/2018 18:18*	WG1190981

Sample Narrative:

L1040274-01 WG1190981: Surrogate failure due to matrix interference.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	1360		487	100	11/05/2018 10:29	WG1190881
C22-C32 Hydrocarbons	10700		487	100	11/05/2018 10:29	WG1190881
C32-C40 Hydrocarbons	3860		487	100	11/05/2018 10:29	WG1190881
(S) o-Terphenyl	*0.000*	*J7*	*18.0-148*		*11/05/2018 10:29*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0243	1	11/08/2018 11:59	WG1192371
Alpha BHC	ND		0.0243	1	11/08/2018 11:59	WG1192371
Beta BHC	ND		0.0243	1	11/08/2018 11:59	WG1192371
Delta BHC	ND		0.0243	1	11/08/2018 11:59	WG1192371
Gamma BHC	ND		0.0243	1	11/08/2018 11:59	WG1192371
4,4-DDD	ND		0.0243	1	11/08/2018 11:59	WG1192371
4,4-DDE	ND		0.0243	1	11/08/2018 11:59	WG1192371
4,4-DDT	ND		0.0243	1	11/08/2018 11:59	WG1192371
Dieldrin	ND		0.00243	1	11/08/2018 11:59	WG1192371
Endosulfan I	ND		0.0243	1	11/08/2018 11:59	WG1192371
Endosulfan II	ND		0.0243	1	11/08/2018 11:59	WG1192371
Endosulfan sulfate	ND		0.0243	1	11/08/2018 11:59	WG1192371
Endrin	ND		0.0243	1	11/08/2018 11:59	WG1192371
Endrin aldehyde	ND		0.0243	1	11/08/2018 11:59	WG1192371
Endrin ketone	ND		0.0243	1	11/08/2018 11:59	WG1192371
Heptachlor	ND		0.0243	1	11/08/2018 11:59	WG1192371
Heptachlor epoxide	ND		0.0243	1	11/08/2018 11:59	WG1192371
Hexachlorobenzene	ND		0.0243	1	11/08/2018 11:59	WG1192371
Methoxychlor	ND		0.0243	1	11/08/2018 11:59	WG1192371
Chlordane	ND		0.243	1	11/08/2018 11:59	WG1192371
Toxaphene	ND		0.487	1	11/08/2018 11:59	WG1192371
(S) Decachlorobiphenyl	*39.5*		*10.0-135*		*11/08/2018 11:59*	WG1192371
(S) Tetrachloro-m-xylene	*47.0*		*10.0-139*		*11/08/2018 11:59*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0207	1	11/09/2018 22:50	WG1192371
PCB 1221	ND		0.0207	1	11/09/2018 22:50	WG1192371
PCB 1232	ND		0.0207	1	11/09/2018 22:50	WG1192371
PCB 1242	ND		0.0207	1	11/09/2018 22:50	WG1192371
PCB 1248	ND		0.0207	1	11/09/2018 22:50	WG1192371
PCB 1254	ND		0.0207	1	11/09/2018 22:50	WG1192371
PCB 1260	ND		0.0207	1	11/09/2018 22:50	WG1192371
(S) Decachlorobiphenyl	*109*		*10.0-135*		*11/09/2018 22:50*	WG1192371
(S) Tetrachloro-m-xylene	*76.4*		*10.0-139*		*11/09/2018 22:50*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.146	20	11/08/2018 09:17	WG1192376
Acenaphthene	ND		0.146	20	11/08/2018 09:17	WG1192376
Acenaphthylene	ND		0.146	20	11/08/2018 09:17	WG1192376
Benzo(a)anthracene	ND		0.146	20	11/08/2018 09:17	WG1192376
Benzo(a)pyrene	ND		0.146	20	11/08/2018 09:17	WG1192376
Benzo(b)fluoranthene	ND		0.146	20	11/08/2018 09:17	WG1192376
Benzo(g,h,i)perylene	ND		0.146	20	11/08/2018 09:17	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	ND		0.146	20	11/08/2018 09:17	WG1192376
Chrysene	ND		0.146	20	11/08/2018 09:17	WG1192376
Dibenz(a,h)anthracene	ND		0.146	20	11/08/2018 09:17	WG1192376
Fluoranthene	ND		0.146	20	11/08/2018 09:17	WG1192376
Fluorene	ND		0.146	20	11/08/2018 09:17	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.146	20	11/08/2018 09:17	WG1192376
Naphthalene	ND		0.487	20	11/08/2018 09:17	WG1192376
Phenanthrene	ND		0.146	20	11/08/2018 09:17	WG1192376
Pyrene	ND		0.146	20	11/08/2018 09:17	WG1192376
1-Methylnaphthalene	ND		0.487	20	11/08/2018 09:17	WG1192376
2-Methylnaphthalene	ND		0.487	20	11/08/2018 09:17	WG1192376
2-Chloronaphthalene	ND		0.487	20	11/08/2018 09:17	WG1192376
(S) p-Terphenyl-d14	*48.2*	J7	*23.0-120*		*11/08/2018 09:17*	WG1192376
(S) Nitrobenzene-d5	*51.3*	J7	*14.0-149*		*11/08/2018 09:17*	WG1192376
(S) 2-Fluorobiphenyl	*45.0*	J7	*34.0-125*		*11/08/2018 09:17*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	11/06/2018 13:31	WG1192006

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0223	1	11/05/2018 10:41	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.23	1	11/05/2018 16:39	WG1191040
Arsenic	ND		2.23	1	11/05/2018 16:39	WG1191040
Barium	43.0		0.557	1	11/05/2018 16:39	WG1191040
Beryllium	ND		0.223	1	11/05/2018 16:39	WG1191040
Cadmium	ND		0.557	1	11/05/2018 16:39	WG1191040
Chromium	5.07		1.11	1	11/05/2018 16:39	WG1191040
Cobalt	3.93		1.11	1	11/05/2018 16:39	WG1191040
Copper	6.92		2.23	1	11/05/2018 16:39	WG1191040
Lead	3.41		0.557	1	11/05/2018 16:39	WG1191040
Molybdenum	ND		0.557	1	11/05/2018 16:39	WG1191040
Nickel	4.51		2.23	1	11/05/2018 16:39	WG1191040
Selenium	ND		2.23	1	11/05/2018 16:39	WG1191040
Silver	ND		1.11	1	11/05/2018 16:39	WG1191040
Thallium	ND		2.23	1	11/05/2018 16:39	WG1191040
Vanadium	20.1		2.23	1	11/05/2018 16:39	WG1191040
Zinc	19.4		5.57	1	11/05/2018 16:39	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	0.225		0.111	1	11/07/2018 09:21	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*98.4*		*77.0-120*		*11/07/2018 09:21*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0301	1.08	11/03/2018 18:37	WG1190981
Acrylonitrile	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
Benzene	ND		0.00120	1.08	11/03/2018 18:37	WG1190981
Bromobenzene	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
Bromodichloromethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Bromoform	ND		0.0301	1.08	11/03/2018 18:37	WG1190981
Bromomethane	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
n-Butylbenzene	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
sec-Butylbenzene	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
tert-Butylbenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Carbon tetrachloride	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Chlorobenzene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Chlorodibromomethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Chloroethane	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Chloroform	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Chloromethane	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
2-Chlorotoluene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
4-Chlorotoluene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0301	1.08	11/03/2018 18:37	WG1190981
1,2-Dibromoethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Dibromomethane	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
1,2-Dichlorobenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
1,3-Dichlorobenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
1,4-Dichlorobenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Dichlorodifluoromethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,1-Dichloroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,2-Dichloroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,1-Dichloroethene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
cis-1,2-Dichloroethene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
trans-1,2-Dichloroethene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
1,2-Dichloropropane	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
1,1-Dichloropropene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,3-Dichloropropane	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
cis-1,3-Dichloropropene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
trans-1,3-Dichloropropene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
2,2-Dichloropropane	ND	J4	0.00301	1.08	11/03/2018 18:37	WG1190981
Di-isopropyl ether	ND		0.00120	1.08	11/03/2018 18:37	WG1190981
Ethylbenzene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Hexachloro-1,3-butadiene	ND		0.0301	1.08	11/03/2018 18:37	WG1190981
Isopropylbenzene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
p-Isopropyltoluene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
2-Butanone (MEK)	ND		0.0301	1.08	11/07/2018 17:14	WG1192865
Methylene Chloride	ND		0.0301	1.08	11/03/2018 18:37	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0301	1.08	11/03/2018 18:37	WG1190981
Methyl tert-butyl ether	ND		0.00120	1.08	11/03/2018 18:37	WG1190981
Naphthalene	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
n-Propylbenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Styrene	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Tetrachloroethene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Toluene	0.00956		0.00601	1.08	11/03/2018 18:37	WG1190981
1,2,3-Trichlorobenzene	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,2,4-Trichlorobenzene	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
1,1,1-Trichloroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,1,2-Trichloroethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
Trichloroethene	ND		0.00120	1.08	11/03/2018 18:37	WG1190981
Trichlorofluoromethane	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,2,3-Trichloropropane	ND		0.0150	1.08	11/03/2018 18:37	WG1190981
1,2,4-Trimethylbenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
1,2,3-Trimethylbenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Vinyl chloride	ND		0.00301	1.08	11/03/2018 18:37	WG1190981
1,3,5-Trimethylbenzene	ND		0.00601	1.08	11/03/2018 18:37	WG1190981
Xylenes, Total	0.0103		0.00782	1.08	11/03/2018 18:37	WG1190981
(S) Toluene-d8	*106*		*75.0-131*		*11/03/2018 18:37*	WG1190981
(S) Toluene-d8	*116*		*75.0-131*		*11/07/2018 17:14*	WG1192865
(S) Dibromofluoromethane	*88.1*		*65.0-129*		*11/03/2018 18:37*	WG1190981
(S) Dibromofluoromethane	*88.6*		*65.0-129*		*11/07/2018 17:14*	WG1192865
(S) 4-Bromofluorobenzene	*102*		*67.0-138*		*11/03/2018 18:37*	WG1190981
(S) 4-Bromofluorobenzene	*110*		*67.0-138*		*11/07/2018 17:14*	WG1192865

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	26.6		4.45	1	11/05/2018 07:23	WG1190881
C22-C32 Hydrocarbons	165		4.45	1	11/05/2018 07:23	WG1190881
C32-C40 Hydrocarbons	65.4		4.45	1	11/05/2018 07:23	WG1190881
(S) o-Terphenyl	*66.8*		*18.0-148*		*11/05/2018 07:23*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0223	1	11/08/2018 12:12	WG1192371
Alpha BHC	ND		0.0223	1	11/08/2018 12:12	WG1192371
Beta BHC	ND		0.0223	1	11/08/2018 12:12	WG1192371
Delta BHC	ND		0.0223	1	11/08/2018 12:12	WG1192371
Gamma BHC	ND		0.0223	1	11/08/2018 12:12	WG1192371
4,4-DDD	ND		0.0223	1	11/08/2018 12:12	WG1192371
4,4-DDE	ND		0.0223	1	11/08/2018 12:12	WG1192371
4,4-DDT	ND		0.0223	1	11/08/2018 12:12	WG1192371
Dieldrin	ND		0.00223	1	11/08/2018 12:12	WG1192371
Endosulfan I	ND		0.0223	1	11/08/2018 12:12	WG1192371
Endosulfan II	ND		0.0223	1	11/08/2018 12:12	WG1192371
Endosulfan sulfate	ND		0.0223	1	11/08/2018 12:12	WG1192371
Endrin	ND		0.0223	1	11/08/2018 12:12	WG1192371
Endrin aldehyde	ND		0.0223	1	11/08/2018 12:12	WG1192371
Endrin ketone	ND		0.0223	1	11/08/2018 12:12	WG1192371
Heptachlor	ND		0.0223	1	11/08/2018 12:12	WG1192371
Heptachlor epoxide	ND		0.0223	1	11/08/2018 12:12	WG1192371
Hexachlorobenzene	ND		0.0223	1	11/08/2018 12:12	WG1192371
Methoxychlor	ND		0.0223	1	11/08/2018 12:12	WG1192371
Chlordane	ND		0.223	1	11/08/2018 12:12	WG1192371
Toxaphene	ND		0.445	1	11/08/2018 12:12	WG1192371
(S) Decachlorobiphenyl	*33.4*		*10.0-135*		*11/08/2018 12:12*	WG1192371
(S) Tetrachloro-m-xylene	*52.4*		*10.0-139*		*11/08/2018 12:12*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0189	1	11/09/2018 19:35	WG1192371
PCB 1221	ND		0.0189	1	11/09/2018 19:35	WG1192371
PCB 1232	ND		0.0189	1	11/09/2018 19:35	WG1192371
PCB 1242	ND		0.0189	1	11/09/2018 19:35	WG1192371
PCB 1248	ND		0.0189	1	11/09/2018 19:35	WG1192371
PCB 1254	ND		0.0189	1	11/09/2018 19:35	WG1192371
PCB 1260	ND		0.0189	1	11/09/2018 19:35	WG1192371
(S) Decachlorobiphenyl	*63.4*		*10.0-135*		*11/09/2018 19:35*	WG1192371
(S) Tetrachloro-m-xylene	*51.8*		*10.0-139*		*11/09/2018 19:35*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Acenaphthene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Acenaphthylene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Benzo(a)anthracene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Benzo(a)pyrene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Benzo(b)fluoranthene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Benzo(g,h,i)perylene	ND		0.00668	1	11/07/2018 17:34	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Chrysene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Dibenz(a,h)anthracene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Fluoranthene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Fluorene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Naphthalene	ND		0.0223	1	11/07/2018 17:34	WG1192376
Phenanthrene	ND		0.00668	1	11/07/2018 17:34	WG1192376
Pyrene	ND		0.00668	1	11/07/2018 17:34	WG1192376
1-Methylnaphthalene	ND		0.0223	1	11/07/2018 17:34	WG1192376
2-Methylnaphthalene	ND		0.0223	1	11/07/2018 17:34	WG1192376
2-Chloronaphthalene	ND		0.0223	1	11/07/2018 17:34	WG1192376
(S) p-Terphenyl-d14	*46.7*		*23.0-120*		*11/07/2018 17:34*	WG1192376
(S) Nitrobenzene-d5	*70.2*		*14.0-149*		*11/07/2018 17:34*	WG1192376
(S) 2-Fluorobiphenyl	*52.4*		*34.0-125*		*11/07/2018 17:34*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	11/06/2018 13:31	WG1192006

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0203	1	11/05/2018 10:43	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.03	1	11/05/2018 16:42	WG1191040
Arsenic	ND		2.03	1	11/05/2018 16:42	WG1191040
Barium	47.2		0.507	1	11/05/2018 16:42	WG1191040
Beryllium	0.266		0.203	1	11/05/2018 16:42	WG1191040
Cadmium	ND		0.507	1	11/05/2018 16:42	WG1191040
Chromium	8.24		1.01	1	11/05/2018 16:42	WG1191040
Cobalt	6.08		1.01	1	11/05/2018 16:42	WG1191040
Copper	7.49		2.03	1	11/05/2018 16:42	WG1191040
Lead	5.33		0.507	1	11/05/2018 16:42	WG1191040
Molybdenum	ND		0.507	1	11/05/2018 16:42	WG1191040
Nickel	5.67		2.03	1	11/05/2018 16:42	WG1191040
Selenium	ND		2.03	1	11/05/2018 16:42	WG1191040
Silver	ND		1.01	1	11/05/2018 16:42	WG1191040
Thallium	ND		2.03	1	11/05/2018 16:42	WG1191040
Vanadium	47.5		2.03	1	11/05/2018 16:42	WG1191040
Zinc	21.8		5.07	1	11/05/2018 16:42	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		0.126	1.24	11/07/2018 09:45	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*98.2*		*77.0-120*		*11/07/2018 09:45*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
Acrylonitrile	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
Benzene	ND		0.00157	1.55	11/03/2018 18:56	WG1190981
Bromobenzene	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
Bromodichloromethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Bromoform	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
Bromomethane	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
n-Butylbenzene	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
sec-Butylbenzene	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
tert-Butylbenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Carbon tetrachloride	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Chlorobenzene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Chlorodibromomethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Chloroethane	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Chloroform	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Chloromethane	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
2-Chlorotoluene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
4-Chlorotoluene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
1,2-Dibromoethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Dibromomethane	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
1,2-Dichlorobenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
1,3-Dichlorobenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
1,4-Dichlorobenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Dichlorodifluoromethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,1-Dichloroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,2-Dichloroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,1-Dichloroethene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
cis-1,2-Dichloroethene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
trans-1,2-Dichloroethene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
1,2-Dichloropropane	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
1,1-Dichloropropene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,3-Dichloropropane	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
cis-1,3-Dichloropropene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
trans-1,3-Dichloropropene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
2,2-Dichloropropane	ND	J4	0.00393	1.55	11/03/2018 18:56	WG1190981
Di-isopropyl ether	ND		0.00157	1.55	11/03/2018 18:56	WG1190981
Ethylbenzene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Hexachloro-1,3-butadiene	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
Isopropylbenzene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
p-Isopropyltoluene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
2-Butanone (MEK)	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
Methylene Chloride	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0393	1.55	11/03/2018 18:56	WG1190981
Methyl tert-butyl ether	ND		0.00157	1.55	11/03/2018 18:56	WG1190981
Naphthalene	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
n-Propylbenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Styrene	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Tetrachloroethene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Toluene	0.0173		0.00785	1.55	11/03/2018 18:56	WG1190981
1,2,3-Trichlorobenzene	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,2,4-Trichlorobenzene	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
1,1,1-Trichloroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,1,2-Trichloroethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
Trichloroethene	ND		0.00157	1.55	11/03/2018 18:56	WG1190981
Trichlorofluoromethane	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,2,3-Trichloropropane	ND		0.0196	1.55	11/03/2018 18:56	WG1190981
1,2,4-Trimethylbenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
1,2,3-Trimethylbenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Vinyl chloride	ND		0.00393	1.55	11/03/2018 18:56	WG1190981
1,3,5-Trimethylbenzene	ND		0.00785	1.55	11/03/2018 18:56	WG1190981
Xylenes, Total	0.0183		0.0102	1.55	11/03/2018 18:56	WG1190981
(S) Toluene-d8	*112*		*75.0-131*		*11/03/2018 18:56*	WG1190981
(S) Dibromofluoromethane	*92.4*		*65.0-129*		*11/03/2018 18:56*	WG1190981
(S) 4-Bromofluorobenzene	*111*		*67.0-138*		*11/03/2018 18:56*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.05	1	11/05/2018 04:51	WG1190881
C22-C32 Hydrocarbons	ND		4.05	1	11/05/2018 04:51	WG1190881
C32-C40 Hydrocarbons	ND		4.05	1	11/05/2018 04:51	WG1190881
(S) o-Terphenyl	*82.3*		*18.0-148*		*11/05/2018 04:51*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0203	1	11/08/2018 12:24	WG1192371
Alpha BHC	ND		0.0203	1	11/08/2018 12:24	WG1192371
Beta BHC	ND		0.0203	1	11/08/2018 12:24	WG1192371
Delta BHC	ND		0.0203	1	11/08/2018 12:24	WG1192371
Gamma BHC	ND		0.0203	1	11/08/2018 12:24	WG1192371
4,4-DDD	ND		0.0203	1	11/08/2018 12:24	WG1192371
4,4-DDE	ND		0.0203	1	11/08/2018 12:24	WG1192371
4,4-DDT	ND		0.0203	1	11/08/2018 12:24	WG1192371
Dieldrin	ND		0.00203	1	11/08/2018 12:24	WG1192371
Endosulfan I	ND		0.0203	1	11/08/2018 12:24	WG1192371
Endosulfan II	ND		0.0203	1	11/08/2018 12:24	WG1192371
Endosulfan sulfate	ND		0.0203	1	11/08/2018 12:24	WG1192371
Endrin	ND		0.0203	1	11/08/2018 12:24	WG1192371
Endrin aldehyde	ND		0.0203	1	11/08/2018 12:24	WG1192371
Endrin ketone	ND		0.0203	1	11/08/2018 12:24	WG1192371
Heptachlor	ND		0.0203	1	11/08/2018 12:24	WG1192371
Heptachlor epoxide	ND		0.0203	1	11/08/2018 12:24	WG1192371
Hexachlorobenzene	ND		0.0203	1	11/08/2018 12:24	WG1192371
Methoxychlor	ND		0.0203	1	11/08/2018 12:24	WG1192371
Chlordane	ND		0.203	1	11/08/2018 12:24	WG1192371
Toxaphene	ND		0.405	1	11/08/2018 12:24	WG1192371
(S) Decachlorobiphenyl	*52.2*		*10.0-135*		*11/08/2018 12:24*	WG1192371
(S) Tetrachloro-m-xylene	*64.9*		*10.0-139*		*11/08/2018 12:24*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0172	1	11/09/2018 19:51	WG1192371
PCB 1221	ND		0.0172	1	11/09/2018 19:51	WG1192371
PCB 1232	ND		0.0172	1	11/09/2018 19:51	WG1192371
PCB 1242	ND		0.0172	1	11/09/2018 19:51	WG1192371
PCB 1248	ND		0.0172	1	11/09/2018 19:51	WG1192371
PCB 1254	ND		0.0172	1	11/09/2018 19:51	WG1192371
PCB 1260	ND		0.0172	1	11/09/2018 19:51	WG1192371
(S) Decachlorobiphenyl	*98.0*		*10.0-135*		*11/09/2018 19:51*	WG1192371
(S) Tetrachloro-m-xylene	*75.0*		*10.0-139*		*11/09/2018 19:51*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Acenaphthene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Acenaphthylene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Benzo(a)anthracene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Benzo(a)pyrene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Benzo(b)fluoranthene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Benzo(g,h,i)perylene	ND		0.00608	1	11/07/2018 17:55	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Chrysene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Dibenz(a,h)anthracene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Fluoranthene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Fluorene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Naphthalene	ND		0.0203	1	11/07/2018 17:55	WG1192376
Phenanthrene	ND		0.00608	1	11/07/2018 17:55	WG1192376
Pyrene	ND		0.00608	1	11/07/2018 17:55	WG1192376
1-Methylnaphthalene	ND		0.0203	1	11/07/2018 17:55	WG1192376
2-Methylnaphthalene	ND		0.0203	1	11/07/2018 17:55	WG1192376
2-Chloronaphthalene	ND		0.0203	1	11/07/2018 17:55	WG1192376
(S) p-Terphenyl-d14	*78.9*		*23.0-120*		*11/07/2018 17:55*	WG1192376
(S) Nitrobenzene-d5	*87.6*		*14.0-149*		*11/07/2018 17:55*	WG1192376
(S) 2-Fluorobiphenyl	*69.2*		*34.0-125*		*11/07/2018 17:55*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.0		1	11/06/2018 13:31	WG1192006

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0247	1	11/05/2018 10:46	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.47	1	11/05/2018 16:44	WG1191040
Arsenic	5.99		2.47	1	11/05/2018 16:44	WG1191040
Barium	250		0.618	1	11/05/2018 16:44	WG1191040
Beryllium	1.26		0.247	1	11/05/2018 16:44	WG1191040
Cadmium	ND		0.618	1	11/05/2018 16:44	WG1191040
Chromium	28.4		1.24	1	11/05/2018 16:44	WG1191040
Cobalt	17.5		1.24	1	11/05/2018 16:44	WG1191040
Copper	34.3		2.47	1	11/05/2018 16:44	WG1191040
Lead	15.2		0.618	1	11/05/2018 16:44	WG1191040
Molybdenum	0.744		0.618	1	11/05/2018 16:44	WG1191040
Nickel	26.4		2.47	1	11/05/2018 16:44	WG1191040
Selenium	ND		2.47	1	11/05/2018 16:44	WG1191040
Silver	ND		1.24	1	11/05/2018 16:44	WG1191040
Thallium	ND		2.47	1	11/05/2018 16:44	WG1191040
Vanadium	68.9		2.47	1	11/05/2018 16:44	WG1191040
Zinc	96.4		6.18	1	11/05/2018 16:44	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		0.124	1	11/07/2018 10:09	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*98.8*		*77.0-120*		*11/07/2018 10:09*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
Acrylonitrile	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
Benzene	ND		0.00387	3.13	11/03/2018 19:14	WG1190981
Bromobenzene	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
Bromodichloromethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Bromoform	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
Bromomethane	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
n-Butylbenzene	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
sec-Butylbenzene	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
tert-Butylbenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Carbon tetrachloride	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Chlorobenzene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Chlorodibromomethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Chloroethane	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Chloroform	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Chloromethane	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
2-Chlorotoluene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
4-Chlorotoluene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
1,2-Dibromoethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Dibromomethane	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
1,2-Dichlorobenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
1,3-Dichlorobenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
1,4-Dichlorobenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Dichlorodifluoromethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,1-Dichloroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,2-Dichloroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,1-Dichloroethene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
cis-1,2-Dichloroethene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
trans-1,2-Dichloroethene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
1,2-Dichloropropane	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
1,1-Dichloropropene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,3-Dichloropropane	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
cis-1,3-Dichloropropene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
trans-1,3-Dichloropropene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
2,2-Dichloropropane	ND	J4	0.00967	3.13	11/03/2018 19:14	WG1190981
Di-isopropyl ether	ND		0.00387	3.13	11/03/2018 19:14	WG1190981
Ethylbenzene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Hexachloro-1,3-butadiene	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
Isopropylbenzene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
p-Isopropyltoluene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
2-Butanone (MEK)	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
Methylene Chloride	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0967	3.13	11/03/2018 19:14	WG1190981
Methyl tert-butyl ether	ND		0.00387	3.13	11/03/2018 19:14	WG1190981
Naphthalene	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
n-Propylbenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Styrene	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Tetrachloroethene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Toluene	0.0209		0.0193	3.13	11/03/2018 19:14	WG1190981
1,2,3-Trichlorobenzene	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,2,4-Trichlorobenzene	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
1,1,1-Trichloroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,1,2-Trichloroethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
Trichloroethene	ND		0.00387	3.13	11/03/2018 19:14	WG1190981
Trichlorofluoromethane	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,2,3-Trichloropropane	ND		0.0483	3.13	11/03/2018 19:14	WG1190981
1,2,4-Trimethylbenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
1,2,3-Trimethylbenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Vinyl chloride	ND		0.00967	3.13	11/03/2018 19:14	WG1190981
1,3,5-Trimethylbenzene	ND		0.0193	3.13	11/03/2018 19:14	WG1190981
Xylenes, Total	ND		0.0251	3.13	11/03/2018 19:14	WG1190981
(S) Toluene-d8	*105*		*75.0-131*		*11/03/2018 19:14*	WG1190981
(S) Dibromofluoromethane	*96.1*		*65.0-129*		*11/03/2018 19:14*	WG1190981
(S) 4-Bromofluorobenzene	*110*		*67.0-138*		*11/03/2018 19:14*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.94	1	11/05/2018 05:04	WG1190881
C22-C32 Hydrocarbons	ND		4.94	1	11/05/2018 05:04	WG1190881
C32-C40 Hydrocarbons	ND		4.94	1	11/05/2018 05:04	WG1190881
(S) o-Terphenyl	*54.4*		*18.0-148*		*11/05/2018 05:04*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0247	1	11/08/2018 14:30	WG1192371
Alpha BHC	ND		0.0247	1	11/08/2018 14:30	WG1192371
Beta BHC	ND		0.0247	1	11/08/2018 14:30	WG1192371
Delta BHC	ND		0.0247	1	11/08/2018 14:30	WG1192371
Gamma BHC	ND		0.0247	1	11/08/2018 14:30	WG1192371
4,4-DDD	ND		0.0247	1	11/08/2018 14:30	WG1192371
4,4-DDE	ND		0.0247	1	11/08/2018 14:30	WG1192371
4,4-DDT	ND		0.0247	1	11/09/2018 12:42	WG1192371
Dieldrin	ND		0.00247	1	11/08/2018 14:30	WG1192371
Endosulfan I	ND		0.0247	1	11/08/2018 14:30	WG1192371
Endosulfan II	ND		0.0247	1	11/08/2018 14:30	WG1192371
Endosulfan sulfate	ND		0.0247	1	11/08/2018 14:30	WG1192371
Endrin	ND		0.0247	1	11/08/2018 14:30	WG1192371
Endrin aldehyde	ND		0.0247	1	11/08/2018 14:30	WG1192371
Endrin ketone	ND		0.0247	1	11/08/2018 14:30	WG1192371
Heptachlor	ND		0.0247	1	11/08/2018 14:30	WG1192371
Heptachlor epoxide	ND		0.0247	1	11/08/2018 14:30	WG1192371
Hexachlorobenzene	ND		0.0247	1	11/08/2018 14:30	WG1192371
Methoxychlor	ND		0.0247	1	11/09/2018 12:42	WG1192371
Chlordane	ND		0.247	1	11/08/2018 14:30	WG1192371
Toxaphene	ND		0.494	1	11/08/2018 14:30	WG1192371
(S) Decachlorobiphenyl	*35.8*		*10.0-135*		*11/09/2018 12:42*	WG1192371
(S) Decachlorobiphenyl	*34.8*		*10.0-135*		*11/08/2018 14:30*	WG1192371
(S) Tetrachloro-m-xylene	*51.5*		*10.0-139*		*11/09/2018 12:42*	WG1192371
(S) Tetrachloro-m-xylene	*49.5*		*10.0-139*		*11/08/2018 14:30*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0210	1	11/09/2018 20:06	WG1192371
PCB 1221	ND		0.0210	1	11/09/2018 20:06	WG1192371
PCB 1232	ND		0.0210	1	11/09/2018 20:06	WG1192371
PCB 1242	ND		0.0210	1	11/09/2018 20:06	WG1192371
PCB 1248	ND		0.0210	1	11/09/2018 20:06	WG1192371
PCB 1254	ND		0.0210	1	11/09/2018 20:06	WG1192371
PCB 1260	ND		0.0210	1	11/09/2018 20:06	WG1192371
(S) Decachlorobiphenyl	*80.7*		*10.0-135*		*11/09/2018 20:06*	WG1192371
(S) Tetrachloro-m-xylene	*63.8*		*10.0-139*		*11/09/2018 20:06*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Acenaphthene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Acenaphthylene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Benzo(a)anthracene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Benzo(a)pyrene	ND		0.00741	1	11/07/2018 18:16	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Benzo(g,h,i)perylene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Benzo(k)fluoranthene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Chrysene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Dibenz(a,h)anthracene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Fluoranthene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Fluorene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Naphthalene	ND		0.0247	1	11/07/2018 18:16	WG1192376
Phenanthrene	ND		0.00741	1	11/07/2018 18:16	WG1192376
Pyrene	ND		0.00741	1	11/07/2018 18:16	WG1192376
1-Methylnaphthalene	ND		0.0247	1	11/07/2018 18:16	WG1192376
2-Methylnaphthalene	ND		0.0247	1	11/07/2018 18:16	WG1192376
2-Chloronaphthalene	ND		0.0247	1	11/07/2018 18:16	WG1192376
(S) p-Terphenyl-d14	*59.3*		*23.0-120*		*11/07/2018 18:16*	WG1192376
(S) Nitrobenzene-d5	*66.2*		*14.0-149*		*11/07/2018 18:16*	WG1192376
(S) 2-Fluorobiphenyl	*53.4*		*34.0-125*		*11/07/2018 18:16*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.5		1	11/06/2018 13:31	WG1192006

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0231	1	11/05/2018 10:49	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.31	1	11/05/2018 16:47	WG1191040
Arsenic	3.60		2.31	1	11/05/2018 16:47	WG1191040
Barium	136		0.578	1	11/05/2018 16:47	WG1191040
Beryllium	1.16		0.231	1	11/05/2018 16:47	WG1191040
Cadmium	ND		0.578	1	11/05/2018 16:47	WG1191040
Chromium	28.0		1.16	1	11/05/2018 16:47	WG1191040
Cobalt	15.6		1.16	1	11/05/2018 16:47	WG1191040
Copper	27.3		2.31	1	11/05/2018 16:47	WG1191040
Lead	15.8		0.578	1	11/05/2018 16:47	WG1191040
Molybdenum	ND		0.578	1	11/05/2018 16:47	WG1191040
Nickel	22.7		2.31	1	11/05/2018 16:47	WG1191040
Selenium	ND		2.31	1	11/05/2018 16:47	WG1191040
Silver	ND		1.16	1	11/05/2018 16:47	WG1191040
Thallium	ND		2.31	1	11/05/2018 16:47	WG1191040
Vanadium	61.8		2.31	1	11/05/2018 16:47	WG1191040
Zinc	95.7		5.78	1	11/05/2018 16:47	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		0.158	1.37	11/07/2018 10:34	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*98.1*		*77.0-120*		*11/07/2018 10:34*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0607	2.1	11/03/2018 19:33	WG1190981
Acrylonitrile	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
Benzene	ND		0.00243	2.1	11/03/2018 19:33	WG1190981
Bromobenzene	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
Bromodichloromethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Bromoform	ND		0.0607	2.1	11/03/2018 19:33	WG1190981
Bromomethane	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
n-Butylbenzene	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
sec-Butylbenzene	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
tert-Butylbenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Carbon tetrachloride	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Chlorobenzene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Chlorodibromomethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Chloroethane	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Chloroform	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Chloromethane	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
2-Chlorotoluene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
4-Chlorotoluene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0607	2.1	11/03/2018 19:33	WG1190981
1,2-Dibromoethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Dibromomethane	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
1,2-Dichlorobenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
1,3-Dichlorobenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
1,4-Dichlorobenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Dichlorodifluoromethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,1-Dichloroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,2-Dichloroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,1-Dichloroethene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
cis-1,2-Dichloroethene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
trans-1,2-Dichloroethene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
1,2-Dichloropropane	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
1,1-Dichloropropene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,3-Dichloropropane	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
cis-1,3-Dichloropropene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
trans-1,3-Dichloropropene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
2,2-Dichloropropane	ND	J4	0.00607	2.1	11/03/2018 19:33	WG1190981
Di-isopropyl ether	ND		0.00243	2.1	11/03/2018 19:33	WG1190981
Ethylbenzene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Hexachloro-1,3-butadiene	ND		0.0607	2.1	11/03/2018 19:33	WG1190981
Isopropylbenzene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
p-Isopropyltoluene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
2-Butanone (MEK)	ND		0.0607	2.1	11/03/2018 19:33	WG1190981
Methylene Chloride	0.245		0.0607	2.1	11/03/2018 19:33	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0607	2.1	11/03/2018 19:33	WG1190981
Methyl tert-butyl ether	ND		0.00243	2.1	11/03/2018 19:33	WG1190981
Naphthalene	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
n-Propylbenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Styrene	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Tetrachloroethene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Toluene	0.0669		0.0121	2.1	11/03/2018 19:33	WG1190981
1,2,3-Trichlorobenzene	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,2,4-Trichlorobenzene	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
1,1,1-Trichloroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,1,2-Trichloroethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
Trichloroethene	ND		0.00243	2.1	11/03/2018 19:33	WG1190981
Trichlorofluoromethane	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,2,3-Trichloropropane	ND		0.0304	2.1	11/03/2018 19:33	WG1190981
1,2,4-Trimethylbenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
1,2,3-Trimethylbenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Vinyl chloride	ND		0.00607	2.1	11/03/2018 19:33	WG1190981
1,3,5-Trimethylbenzene	ND		0.0121	2.1	11/03/2018 19:33	WG1190981
Xylenes, Total	ND		0.0158	2.1	11/03/2018 19:33	WG1190981
(S) Toluene-d8	*105*		*75.0-131*		*11/03/2018 19:33*	WG1190981
(S) Dibromofluoromethane	*95.4*		*65.0-129*		*11/03/2018 19:33*	WG1190981
(S) 4-Bromofluorobenzene	*107*		*67.0-138*		*11/03/2018 19:33*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.63	1	11/05/2018 05:21	WG1190881
C22-C32 Hydrocarbons	ND		4.63	1	11/05/2018 05:21	WG1190881
C32-C40 Hydrocarbons	ND		4.63	1	11/05/2018 05:21	WG1190881
(S) o-Terphenyl	*76.7*		*18.0-148*		*11/05/2018 05:21*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0231	1	11/08/2018 14:42	WG1192371
Alpha BHC	ND		0.0231	1	11/08/2018 14:42	WG1192371
Beta BHC	ND		0.0231	1	11/08/2018 14:42	WG1192371
Delta BHC	ND		0.0231	1	11/08/2018 14:42	WG1192371
Gamma BHC	ND		0.0231	1	11/08/2018 14:42	WG1192371
4,4-DDD	ND		0.0231	1	11/08/2018 14:42	WG1192371
4,4-DDE	ND		0.0231	1	11/08/2018 14:42	WG1192371
4,4-DDT	ND		0.0231	1	11/09/2018 12:55	WG1192371
Dieldrin	ND		0.00231	1	11/08/2018 14:42	WG1192371
Endosulfan I	ND		0.0231	1	11/08/2018 14:42	WG1192371
Endosulfan II	ND		0.0231	1	11/08/2018 14:42	WG1192371
Endosulfan sulfate	ND		0.0231	1	11/08/2018 14:42	WG1192371
Endrin	ND		0.0231	1	11/08/2018 14:42	WG1192371
Endrin aldehyde	ND		0.0231	1	11/08/2018 14:42	WG1192371
Endrin ketone	ND		0.0231	1	11/08/2018 14:42	WG1192371
Heptachlor	ND		0.0231	1	11/08/2018 14:42	WG1192371
Heptachlor epoxide	ND		0.0231	1	11/08/2018 14:42	WG1192371
Hexachlorobenzene	ND		0.0231	1	11/08/2018 14:42	WG1192371
Methoxychlor	ND		0.0231	1	11/09/2018 12:55	WG1192371
Chlordane	ND		0.231	1	11/08/2018 14:42	WG1192371
Toxaphene	ND		0.463	1	11/08/2018 14:42	WG1192371
(S) Decachlorobiphenyl	*30.5*		*10.0-135*		*11/08/2018 14:42*	WG1192371
(S) Decachlorobiphenyl	*34.1*		*10.0-135*		*11/09/2018 12:55*	WG1192371
(S) Tetrachloro-m-xylene	*40.3*		*10.0-139*		*11/08/2018 14:42*	WG1192371
(S) Tetrachloro-m-xylene	*41.6*		*10.0-139*		*11/09/2018 12:55*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0197	1	11/09/2018 20:21	WG1192371
PCB 1221	ND		0.0197	1	11/09/2018 20:21	WG1192371
PCB 1232	ND		0.0197	1	11/09/2018 20:21	WG1192371
PCB 1242	ND		0.0197	1	11/09/2018 20:21	WG1192371
PCB 1248	ND		0.0197	1	11/09/2018 20:21	WG1192371
PCB 1254	ND		0.0197	1	11/09/2018 20:21	WG1192371
PCB 1260	ND		0.0197	1	11/09/2018 20:21	WG1192371
(S) Decachlorobiphenyl	*68.2*		*10.0-135*		*11/09/2018 20:21*	WG1192371
(S) Tetrachloro-m-xylene	*51.6*		*10.0-139*		*11/09/2018 20:21*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Acenaphthene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Acenaphthylene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Benzo(a)anthracene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Benzo(a)pyrene	ND		0.00694	1	11/07/2018 18:37	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Benzo(g,h,i)perylene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Benzo(k)fluoranthene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Chrysene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Dibenz(a,h)anthracene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Fluoranthene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Fluorene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Naphthalene	ND		0.0231	1	11/07/2018 18:37	WG1192376
Phenanthrene	ND		0.00694	1	11/07/2018 18:37	WG1192376
Pyrene	ND		0.00694	1	11/07/2018 18:37	WG1192376
1-Methylnaphthalene	ND		0.0231	1	11/07/2018 18:37	WG1192376
2-Methylnaphthalene	ND		0.0231	1	11/07/2018 18:37	WG1192376
2-Chloronaphthalene	ND		0.0231	1	11/07/2018 18:37	WG1192376
(S) p-Terphenyl-d14	*39.6*		*23.0-120*		*11/07/2018 18:37*	WG1192376
(S) Nitrobenzene-d5	*55.9*		*14.0-149*		*11/07/2018 18:37*	WG1192376
(S) 2-Fluorobiphenyl	*42.1*		*34.0-125*		*11/07/2018 18:37*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.8		1	11/06/2018 13:31	WG1192006

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0200	1	11/05/2018 10:51	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/05/2018 16:55	WG1191040
Arsenic	2.22		2.00	1	11/05/2018 16:55	WG1191040
Barium	48.6		0.501	1	11/05/2018 16:55	WG1191040
Beryllium	0.232		0.200	1	11/05/2018 16:55	WG1191040
Cadmium	ND		0.501	1	11/05/2018 16:55	WG1191040
Chromium	6.53		1.00	1	11/05/2018 16:55	WG1191040
Cobalt	3.33		1.00	1	11/05/2018 16:55	WG1191040
Copper	27.3		2.00	1	11/05/2018 16:55	WG1191040
Lead	7.89		0.501	1	11/05/2018 16:55	WG1191040
Molybdenum	1.83		0.501	1	11/05/2018 16:55	WG1191040
Nickel	4.92		2.00	1	11/05/2018 16:55	WG1191040
Selenium	ND		2.00	1	11/05/2018 16:55	WG1191040
Silver	ND		1.00	1	11/05/2018 16:55	WG1191040
Thallium	ND		2.00	1	11/05/2018 16:55	WG1191040
Vanadium	18.6		2.00	1	11/05/2018 16:55	WG1191040
Zinc	147		5.01	1	11/05/2018 16:55	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	0.763		0.113	1.13	11/07/2018 10:58	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*97.6*		*77.0-120*		*11/07/2018 10:58*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0371	1.48	11/07/2018 17:33	WG1192865
Acrylonitrile	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
Benzene	ND		0.00148	1.48	11/07/2018 17:33	WG1192865
Bromobenzene	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
Bromodichloromethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Bromoform	ND		0.0371	1.48	11/07/2018 17:33	WG1192865
Bromomethane	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
n-Butylbenzene	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
sec-Butylbenzene	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
tert-Butylbenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Carbon tetrachloride	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Chlorobenzene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Chlorodibromomethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Chloroethane	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Chloroform	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Chloromethane	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
2-Chlorotoluene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
4-Chlorotoluene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0371	1.48	11/07/2018 17:33	WG1192865
1,2-Dibromoethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Dibromomethane	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
1,2-Dichlorobenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
1,3-Dichlorobenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
1,4-Dichlorobenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Dichlorodifluoromethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,1-Dichloroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,2-Dichloroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,1-Dichloroethene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
cis-1,2-Dichloroethene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
trans-1,2-Dichloroethene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
1,2-Dichloropropane	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
1,1-Dichloropropene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,3-Dichloropropane	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
cis-1,3-Dichloropropene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
trans-1,3-Dichloropropene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
2,2-Dichloropropane	ND	J4	0.00371	1.48	11/07/2018 17:33	WG1192865
Di-isopropyl ether	ND		0.00148	1.48	11/07/2018 17:33	WG1192865
Ethylbenzene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Hexachloro-1,3-butadiene	ND		0.0371	1.48	11/07/2018 17:33	WG1192865
Isopropylbenzene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
p-Isopropyltoluene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
2-Butanone (MEK)	ND		0.0371	1.48	11/07/2018 17:33	WG1192865
Methylene Chloride	0.0530	B	0.0371	1.48	11/07/2018 17:33	WG1192865
4-Methyl-2-pentanone (MIBK)	ND		0.0371	1.48	11/07/2018 17:33	WG1192865
Methyl tert-butyl ether	ND		0.00148	1.48	11/07/2018 17:33	WG1192865
Naphthalene	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
n-Propylbenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Styrene	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
1,1,1,2-Tetrachloroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,1,2,2-Tetrachloroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,1,2-Trichlorotrifluoroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Tetrachloroethene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Toluene	0.0238		0.00742	1.48	11/07/2018 17:33	WG1192865
1,2,3-Trichlorobenzene	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,2,4-Trichlorobenzene	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
1,1,1-Trichloroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,1,2-Trichloroethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
Trichloroethene	ND		0.00148	1.48	11/07/2018 17:33	WG1192865
Trichlorofluoromethane	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,2,3-Trichloropropane	ND		0.0185	1.48	11/07/2018 17:33	WG1192865
1,2,4-Trimethylbenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
1,2,3-Trimethylbenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Vinyl chloride	ND		0.00371	1.48	11/07/2018 17:33	WG1192865
1,3,5-Trimethylbenzene	ND		0.00742	1.48	11/07/2018 17:33	WG1192865
Xylenes, Total	ND		0.00964	1.48	11/07/2018 17:33	WG1192865
(S) Toluene-d8	*113*		*75.0-131*		*11/07/2018 17:33*	WG1192865
(S) Dibromofluoromethane	*89.5*		*65.0-129*		*11/07/2018 17:33*	WG1192865
(S) 4-Bromofluorobenzene	*107*		*67.0-138*		*11/07/2018 17:33*	WG1192865

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	107		20.0	5	11/05/2018 08:38	WG1190881
C22-C32 Hydrocarbons	1300		80.2	20	11/07/2018 00:49	WG1190881
C32-C40 Hydrocarbons	394		20.0	5	11/05/2018 08:38	WG1190881
(S) o-Terphenyl	*38.6*		*18.0-148*		*11/05/2018 08:38*	WG1190881
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*11/07/2018 00:49*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0200	1	11/08/2018 13:52	WG1192371
Alpha BHC	ND		0.0200	1	11/08/2018 13:52	WG1192371
Beta BHC	ND		0.0200	1	11/08/2018 13:52	WG1192371
Delta BHC	ND		0.0200	1	11/08/2018 13:52	WG1192371
Gamma BHC	ND		0.0200	1	11/08/2018 13:52	WG1192371
4,4-DDD	ND		0.0200	1	11/08/2018 13:52	WG1192371
4,4-DDE	ND		0.0200	1	11/08/2018 13:52	WG1192371
4,4-DDT	ND		0.0200	1	11/09/2018 12:30	WG1192371
Dieldrin	ND		0.00200	1	11/08/2018 13:52	WG1192371
Endosulfan I	ND		0.0200	1	11/08/2018 13:52	WG1192371
Endosulfan II	ND		0.0200	1	11/08/2018 13:52	WG1192371
Endosulfan sulfate	ND		0.0200	1	11/08/2018 13:52	WG1192371
Endrin	ND		0.0200	1	11/08/2018 13:52	WG1192371
Endrin aldehyde	ND		0.0200	1	11/08/2018 13:52	WG1192371
Endrin ketone	ND		0.0200	1	11/08/2018 13:52	WG1192371
Heptachlor	ND		0.0200	1	11/08/2018 13:52	WG1192371
Heptachlor epoxide	ND		0.0200	1	11/08/2018 13:52	WG1192371
Hexachlorobenzene	ND		0.0200	1	11/08/2018 13:52	WG1192371
Methoxychlor	ND		0.0200	1	11/09/2018 12:30	WG1192371
Chlordane	ND		0.200	1	11/08/2018 13:52	WG1192371
Toxaphene	ND		0.401	1	11/08/2018 13:52	WG1192371
(S) Decachlorobiphenyl	*42.4*		*10.0-135*		*11/08/2018 13:52*	WG1192371
(S) Decachlorobiphenyl	*41.9*		*10.0-135*		*11/09/2018 12:30*	WG1192371
(S) Tetrachloro-m-xylene	*43.5*		*10.0-139*		*11/09/2018 12:30*	WG1192371
(S) Tetrachloro-m-xylene	*47.0*		*10.0-139*		*11/08/2018 13:52*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.341	20	11/09/2018 22:35	WG1192371
PCB 1221	ND		0.341	20	11/09/2018 22:35	WG1192371
PCB 1232	ND		0.341	20	11/09/2018 22:35	WG1192371
PCB 1242	ND		0.341	20	11/09/2018 22:35	WG1192371
PCB 1248	ND		0.341	20	11/09/2018 22:35	WG1192371
PCB 1254	ND		0.341	20	11/09/2018 22:35	WG1192371
PCB 1260	ND		0.341	20	11/09/2018 22:35	WG1192371
(S) Decachlorobiphenyl	*94.8*	J7	*10.0-135*		*11/09/2018 22:35*	WG1192371
(S) Tetrachloro-m-xylene	*51.0*	J7	*10.0-139*		*11/09/2018 22:35*	WG1192371

Sample Narrative:

L1040274-06 WG1192371: Dilution due to viscosity

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.120	20	11/08/2018 10:20	WG1192376
Acenaphthene	ND		0.00601	1	11/07/2018 18:58	WG1192376
Acenaphthylene	ND		0.00601	1	11/07/2018 18:58	WG1192376
Benzo(a)anthracene	ND		0.120	20	11/08/2018 10:20	WG1192376
Benzo(a)pyrene	ND		0.120	20	11/08/2018 10:20	WG1192376
Benzo(b)fluoranthene	ND		0.120	20	11/08/2018 10:20	WG1192376
Benzo(g,h,i)perylene	0.148		0.120	20	11/08/2018 10:20	WG1192376
Benzo(k)fluoranthene	ND		0.120	20	11/08/2018 10:20	WG1192376
Chrysene	0.137		0.120	20	11/08/2018 10:20	WG1192376
Dibenz(a,h)anthracene	ND		0.120	20	11/08/2018 10:20	WG1192376
Fluoranthene	0.187		0.120	20	11/08/2018 10:20	WG1192376
Fluorene	ND		0.00601	1	11/07/2018 18:58	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.120	20	11/08/2018 10:20	WG1192376
Naphthalene	ND		0.0200	1	11/07/2018 18:58	WG1192376
Phenanthrene	ND		0.120	20	11/08/2018 10:20	WG1192376
Pyrene	0.280		0.120	20	11/08/2018 10:20	WG1192376
1-Methylnaphthalene	ND		0.0200	1	11/07/2018 18:58	WG1192376
2-Methylnaphthalene	ND		0.0200	1	11/07/2018 18:58	WG1192376
2-Chloronaphthalene	ND		0.0200	1	11/07/2018 18:58	WG1192376
(S) p-Terphenyl-d14	*0.000*	J2	*23.0-120*		*11/07/2018 18:58*	WG1192376
(S) p-Terphenyl-d14	*78.0*	J7	*23.0-120*		*11/08/2018 10:20*	WG1192376
(S) Nitrobenzene-d5	*96.7*	J7	*14.0-149*		*11/08/2018 10:20*	WG1192376
(S) Nitrobenzene-d5	*90.3*		*14.0-149*		*11/07/2018 18:58*	WG1192376
(S) 2-Fluorobiphenyl	*64.5*	J7	*34.0-125*		*11/08/2018 10:20*	WG1192376
(S) 2-Fluorobiphenyl	*48.0*		*34.0-125*		*11/07/2018 18:58*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.1		1	11/06/2018 17:08	WG1192007

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0222	1	11/05/2018 10:54	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.22	1	11/05/2018 16:58	WG1191040
Arsenic	ND		2.22	1	11/05/2018 16:58	WG1191040
Barium	40.9		0.555	1	11/05/2018 16:58	WG1191040
Beryllium	ND		0.222	1	11/05/2018 16:58	WG1191040
Cadmium	ND		0.555	1	11/05/2018 16:58	WG1191040
Chromium	4.34		1.11	1	11/05/2018 16:58	WG1191040
Cobalt	3.24		1.11	1	11/05/2018 16:58	WG1191040
Copper	5.31		2.22	1	11/05/2018 16:58	WG1191040
Lead	3.28		0.555	1	11/05/2018 16:58	WG1191040
Molybdenum	ND		0.555	1	11/05/2018 16:58	WG1191040
Nickel	3.77		2.22	1	11/05/2018 16:58	WG1191040
Selenium	ND		2.22	1	11/05/2018 16:58	WG1191040
Silver	ND		1.11	1	11/05/2018 16:58	WG1191040
Thallium	ND		2.22	1	11/05/2018 16:58	WG1191040
Vanadium	18.4		2.22	1	11/05/2018 16:58	WG1191040
Zinc	18.2		5.55	1	11/05/2018 16:58	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	0.160		0.111	1	11/07/2018 11:22	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*98.5*		*77.0-120*		*11/07/2018 11:22*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0577	2.08	11/03/2018 20:11	WG1190981
Acrylonitrile	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
Benzene	ND		0.00231	2.08	11/03/2018 20:11	WG1190981
Bromobenzene	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
Bromodichloromethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Bromoform	ND		0.0577	2.08	11/03/2018 20:11	WG1190981
Bromomethane	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
n-Butylbenzene	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
sec-Butylbenzene	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
tert-Butylbenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Carbon tetrachloride	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Chlorobenzene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Chlorodibromomethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Chloroethane	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Chloroform	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Chloromethane	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
2-Chlorotoluene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
4-Chlorotoluene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0577	2.08	11/03/2018 20:11	WG1190981
1,2-Dibromoethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Dibromomethane	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
1,2-Dichlorobenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
1,3-Dichlorobenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
1,4-Dichlorobenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Dichlorodifluoromethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,1-Dichloroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,2-Dichloroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,1-Dichloroethene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
cis-1,2-Dichloroethene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
trans-1,2-Dichloroethene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
1,2-Dichloropropane	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
1,1-Dichloropropene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,3-Dichloropropane	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
cis-1,3-Dichloropropene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
trans-1,3-Dichloropropene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
2,2-Dichloropropane	ND	J4	0.00577	2.08	11/03/2018 20:11	WG1190981
Di-isopropyl ether	ND		0.00231	2.08	11/03/2018 20:11	WG1190981
Ethylbenzene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Hexachloro-1,3-butadiene	ND		0.0577	2.08	11/03/2018 20:11	WG1190981
Isopropylbenzene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
p-Isopropyltoluene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
2-Butanone (MEK)	ND		0.0577	2.08	11/03/2018 20:11	WG1190981
Methylene Chloride	0.254		0.0577	2.08	11/03/2018 20:11	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0577	2.08	11/03/2018 20:11	WG1190981
Methyl tert-butyl ether	ND		0.00231	2.08	11/03/2018 20:11	WG1190981
Naphthalene	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
n-Propylbenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Styrene	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Tetrachloroethene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Toluene	0.0722		0.0115	2.08	11/03/2018 20:11	WG1190981
1,2,3-Trichlorobenzene	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,2,4-Trichlorobenzene	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
1,1,1-Trichloroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,1,2-Trichloroethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
Trichloroethene	ND		0.00231	2.08	11/03/2018 20:11	WG1190981
Trichlorofluoromethane	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,2,3-Trichloropropane	ND		0.0289	2.08	11/03/2018 20:11	WG1190981
1,2,4-Trimethylbenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
1,2,3-Trimethylbenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Vinyl chloride	ND		0.00577	2.08	11/03/2018 20:11	WG1190981
1,3,5-Trimethylbenzene	ND		0.0115	2.08	11/03/2018 20:11	WG1190981
Xylenes, Total	ND		0.0150	2.08	11/03/2018 20:11	WG1190981
(S) Toluene-d8	*113*		*75.0-131*		*11/03/2018 20:11*	WG1190981
(S) Dibromofluoromethane	*87.1*		*65.0-129*		*11/03/2018 20:11*	WG1190981
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*11/03/2018 20:11*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	20.1		4.44	1	11/05/2018 07:07	WG1190881
C22-C32 Hydrocarbons	281		22.2	5	11/07/2018 01:01	WG1190881
C32-C40 Hydrocarbons	60.3		4.44	1	11/05/2018 07:07	WG1190881
(S) o-Terphenyl	*82.1*		*18.0-148*		*11/05/2018 07:07*	WG1190881
(S) o-Terphenyl	*97.0*		*18.0-148*		*11/07/2018 01:01*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0222	1	11/08/2018 14:55	WG1192371
Alpha BHC	ND		0.0222	1	11/08/2018 14:55	WG1192371
Beta BHC	ND		0.0222	1	11/08/2018 14:55	WG1192371
Delta BHC	ND		0.0222	1	11/08/2018 14:55	WG1192371
Gamma BHC	ND		0.0222	1	11/08/2018 14:55	WG1192371
4,4-DDD	ND		0.0222	1	11/08/2018 14:55	WG1192371
4,4-DDE	ND		0.0222	1	11/08/2018 14:55	WG1192371
4,4-DDT	ND		0.0222	1	11/09/2018 13:07	WG1192371
Dieldrin	ND		0.00222	1	11/08/2018 14:55	WG1192371
Endosulfan I	ND		0.0222	1	11/08/2018 14:55	WG1192371
Endosulfan II	ND		0.0222	1	11/08/2018 14:55	WG1192371
Endosulfan sulfate	ND		0.0222	1	11/08/2018 14:55	WG1192371
Endrin	ND		0.0222	1	11/08/2018 14:55	WG1192371
Endrin aldehyde	ND		0.0222	1	11/08/2018 14:55	WG1192371
Endrin ketone	ND		0.0222	1	11/08/2018 14:55	WG1192371
Heptachlor	ND		0.0222	1	11/08/2018 14:55	WG1192371
Heptachlor epoxide	ND		0.0222	1	11/08/2018 14:55	WG1192371
Hexachlorobenzene	ND		0.0222	1	11/08/2018 14:55	WG1192371
Methoxychlor	ND		0.0222	1	11/09/2018 13:07	WG1192371
Chlordane	ND		0.222	1	11/08/2018 14:55	WG1192371
Toxaphene	ND		0.444	1	11/08/2018 14:55	WG1192371
(S) Decachlorobiphenyl	*56.1*		*10.0-135*		*11/08/2018 14:55*	WG1192371
(S) Decachlorobiphenyl	*61.6*		*10.0-135*		*11/09/2018 13:07*	WG1192371
(S) Tetrachloro-m-xylene	*73.3*		*10.0-139*		*11/08/2018 14:55*	WG1192371
(S) Tetrachloro-m-xylene	*73.9*		*10.0-139*		*11/09/2018 13:07*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0189	1	11/09/2018 20:36	WG1192371
PCB 1221	ND		0.0189	1	11/09/2018 20:36	WG1192371
PCB 1232	ND		0.0189	1	11/09/2018 20:36	WG1192371
PCB 1242	ND		0.0189	1	11/09/2018 20:36	WG1192371
PCB 1248	ND		0.0189	1	11/09/2018 20:36	WG1192371
PCB 1254	ND		0.0189	1	11/09/2018 20:36	WG1192371
PCB 1260	ND		0.0189	1	11/09/2018 20:36	WG1192371
(S) Decachlorobiphenyl	*114*		*10.0-135*		*11/09/2018 20:36*	WG1192371
(S) Tetrachloro-m-xylene	*70.1*		*10.0-139*		*11/09/2018 20:36*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00666	1	11/07/2018 19:19	WG1192376
Acenaphthene	ND		0.00666	1	11/07/2018 19:19	WG1192376
Acenaphthylene	ND		0.00666	1	11/07/2018 19:19	WG1192376
Benzo(a)anthracene	ND		0.00666	1	11/07/2018 19:19	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(a)pyrene	ND		0.133	20	11/08/2018 09:59	WG1192376
Benzo(b)fluoranthene	ND		0.133	20	11/08/2018 09:59	WG1192376
Benzo(g,h,i)perylene	ND		0.133	20	11/08/2018 09:59	WG1192376
Benzo(k)fluoranthene	ND		0.133	20	11/08/2018 09:59	WG1192376
Chrysene	ND		0.00666	1	11/07/2018 19:19	WG1192376
Dibenz(a,h)anthracene	ND		0.133	20	11/08/2018 09:59	WG1192376
Fluoranthene	0.00745		0.00666	1	11/07/2018 19:19	WG1192376
Fluorene	ND		0.00666	1	11/07/2018 19:19	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.133	20	11/08/2018 09:59	WG1192376
Naphthalene	ND		0.0222	1	11/07/2018 19:19	WG1192376
Phenanthrene	ND		0.00666	1	11/07/2018 19:19	WG1192376
Pyrene	0.0157		0.00666	1	11/07/2018 19:19	WG1192376
1-Methylnaphthalene	ND		0.0222	1	11/07/2018 19:19	WG1192376
2-Methylnaphthalene	ND		0.0222	1	11/07/2018 19:19	WG1192376
2-Chloronaphthalene	ND		0.0222	1	11/07/2018 19:19	WG1192376
(S) p-Terphenyl-d14	*81.6*		*23.0-120*		*11/07/2018 19:19*	WG1192376
(S) p-Terphenyl-d14	*100*	J7	*23.0-120*		*11/08/2018 09:59*	WG1192376
(S) Nitrobenzene-d5	*79.4*		*14.0-149*		*11/07/2018 19:19*	WG1192376
(S) Nitrobenzene-d5	*95.3*	J7	*14.0-149*		*11/08/2018 09:59*	WG1192376
(S) 2-Fluorobiphenyl	*66.8*		*34.0-125*		*11/07/2018 19:19*	WG1192376
(S) 2-Fluorobiphenyl	*90.6*	J7	*34.0-125*		*11/08/2018 09:59*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	11/06/2018 17:08	WG1192007

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0211	1	11/05/2018 10:56	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.11	1	11/05/2018 17:00	WG1191040
Arsenic	ND		2.11	1	11/05/2018 17:00	WG1191040
Barium	45.4		0.528	1	11/05/2018 17:00	WG1191040
Beryllium	ND		0.211	1	11/05/2018 17:00	WG1191040
Cadmium	ND		0.528	1	11/05/2018 17:00	WG1191040
Chromium	5.63		1.06	1	11/05/2018 17:00	WG1191040
Cobalt	2.76		1.06	1	11/05/2018 17:00	WG1191040
Copper	4.95		2.11	1	11/05/2018 17:00	WG1191040
Lead	3.46		0.528	1	11/05/2018 17:00	WG1191040
Molybdenum	0.622		0.528	1	11/05/2018 17:00	WG1191040
Nickel	3.40		2.11	1	11/05/2018 17:00	WG1191040
Selenium	ND		2.11	1	11/05/2018 17:00	WG1191040
Silver	ND		1.06	1	11/05/2018 17:00	WG1191040
Thallium	ND		2.11	1	11/05/2018 17:00	WG1191040
Vanadium	13.6		2.11	1	11/05/2018 17:00	WG1191040
Zinc	18.1		5.28	1	11/05/2018 17:00	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		0.158	1.5	11/07/2018 11:46	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*98.6*		*77.0-120*		*11/07/2018 11:46*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0414	1.57	11/03/2018 20:30	WG1190981
Acrylonitrile	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
Benzene	ND		0.00166	1.57	11/03/2018 20:30	WG1190981
Bromobenzene	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
Bromodichloromethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Bromoform	ND		0.0414	1.57	11/03/2018 20:30	WG1190981
Bromomethane	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
n-Butylbenzene	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
sec-Butylbenzene	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
tert-Butylbenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Carbon tetrachloride	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Chlorobenzene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Chlorodibromomethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Chloroethane	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Chloroform	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Chloromethane	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
2-Chlorotoluene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
4-Chlorotoluene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0414	1.57	11/03/2018 20:30	WG1190981
1,2-Dibromoethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Dibromomethane	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
1,2-Dichlorobenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
1,3-Dichlorobenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
1,4-Dichlorobenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Dichlorodifluoromethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,1-Dichloroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,2-Dichloroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,1-Dichloroethene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
cis-1,2-Dichloroethene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
trans-1,2-Dichloroethene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
1,2-Dichloropropane	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
1,1-Dichloropropene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,3-Dichloropropane	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
cis-1,3-Dichloropropene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
trans-1,3-Dichloropropene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
2,2-Dichloropropane	ND	J4	0.00414	1.57	11/03/2018 20:30	WG1190981
Di-isopropyl ether	ND		0.00166	1.57	11/03/2018 20:30	WG1190981
Ethylbenzene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Hexachloro-1,3-butadiene	ND		0.0414	1.57	11/03/2018 20:30	WG1190981
Isopropylbenzene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
p-Isopropyltoluene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
2-Butanone (MEK)	ND		0.0414	1.57	11/03/2018 20:30	WG1190981
Methylene Chloride	0.195		0.0414	1.57	11/03/2018 20:30	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0414	1.57	11/03/2018 20:30	WG1190981
Methyl tert-butyl ether	ND		0.00166	1.57	11/03/2018 20:30	WG1190981
Naphthalene	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
n-Propylbenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Styrene	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Tetrachloroethene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Toluene	0.0530		0.00828	1.57	11/03/2018 20:30	WG1190981
1,2,3-Trichlorobenzene	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,2,4-Trichlorobenzene	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
1,1,1-Trichloroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,1,2-Trichloroethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
Trichloroethene	ND		0.00166	1.57	11/03/2018 20:30	WG1190981
Trichlorofluoromethane	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,2,3-Trichloropropane	ND		0.0207	1.57	11/03/2018 20:30	WG1190981
1,2,4-Trimethylbenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
1,2,3-Trimethylbenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Vinyl chloride	ND		0.00414	1.57	11/03/2018 20:30	WG1190981
1,3,5-Trimethylbenzene	ND		0.00828	1.57	11/03/2018 20:30	WG1190981
Xylenes, Total	ND		0.0108	1.57	11/03/2018 20:30	WG1190981
(S) Toluene-d8	*108*		*75.0-131*		*11/03/2018 20:30*	WG1190981
(S) Dibromofluoromethane	*94.3*		*65.0-129*		*11/03/2018 20:30*	WG1190981
(S) 4-Bromofluorobenzene	*110*		*67.0-138*		*11/03/2018 20:30*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.22	1	11/05/2018 05:35	WG1190881
C22-C32 Hydrocarbons	ND		4.22	1	11/05/2018 05:35	WG1190881
C32-C40 Hydrocarbons	ND		4.22	1	11/05/2018 05:35	WG1190881
(S) o-Terphenyl	*91.1*		*18.0-148*		*11/05/2018 05:35*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0211	1	11/08/2018 15:07	WG1192371
Alpha BHC	ND		0.0211	1	11/08/2018 15:07	WG1192371
Beta BHC	ND		0.0211	1	11/08/2018 15:07	WG1192371
Delta BHC	ND		0.0211	1	11/08/2018 15:07	WG1192371
Gamma BHC	ND		0.0211	1	11/08/2018 15:07	WG1192371
4,4-DDD	ND		0.0211	1	11/08/2018 15:07	WG1192371
4,4-DDE	ND		0.0211	1	11/08/2018 15:07	WG1192371
4,4-DDT	ND		0.0211	1	11/09/2018 13:20	WG1192371
Dieldrin	ND		0.00211	1	11/08/2018 15:07	WG1192371
Endosulfan I	ND		0.0211	1	11/08/2018 15:07	WG1192371
Endosulfan II	ND		0.0211	1	11/08/2018 15:07	WG1192371
Endosulfan sulfate	ND		0.0211	1	11/08/2018 15:07	WG1192371
Endrin	ND		0.0211	1	11/08/2018 15:07	WG1192371
Endrin aldehyde	ND		0.0211	1	11/08/2018 15:07	WG1192371
Endrin ketone	ND		0.0211	1	11/08/2018 15:07	WG1192371
Heptachlor	ND		0.0211	1	11/08/2018 15:07	WG1192371
Heptachlor epoxide	ND		0.0211	1	11/08/2018 15:07	WG1192371
Hexachlorobenzene	ND		0.0211	1	11/08/2018 15:07	WG1192371
Methoxychlor	ND		0.0211	1	11/09/2018 13:20	WG1192371
Chlordane	ND		0.211	1	11/08/2018 15:07	WG1192371
Toxaphene	ND		0.422	1	11/08/2018 15:07	WG1192371
(S) Decachlorobiphenyl	*73.6*		*10.0-135*		*11/09/2018 13:20*	WG1192371
(S) Decachlorobiphenyl	*65.4*		*10.0-135*		*11/08/2018 15:07*	WG1192371
(S) Tetrachloro-m-xylene	*82.8*		*10.0-139*		*11/09/2018 13:20*	WG1192371
(S) Tetrachloro-m-xylene	*83.4*		*10.0-139*		*11/08/2018 15:07*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0179	1	11/09/2018 20:50	WG1192371
PCB 1221	ND		0.0179	1	11/09/2018 20:50	WG1192371
PCB 1232	ND		0.0179	1	11/09/2018 20:50	WG1192371
PCB 1242	ND		0.0179	1	11/09/2018 20:50	WG1192371
PCB 1248	ND		0.0179	1	11/09/2018 20:50	WG1192371
PCB 1254	ND		0.0179	1	11/09/2018 20:50	WG1192371
PCB 1260	ND		0.0179	1	11/09/2018 20:50	WG1192371
(S) Decachlorobiphenyl	*116*		*10.0-135*		*11/09/2018 20:50*	WG1192371
(S) Tetrachloro-m-xylene	*73.1*		*10.0-139*		*11/09/2018 20:50*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Acenaphthene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Acenaphthylene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Benzo(a)anthracene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Benzo(a)pyrene	ND		0.00633	1	11/07/2018 19:40	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Benzo(g,h,i)perylene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Benzo(k)fluoranthene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Chrysene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Dibenz(a,h)anthracene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Fluoranthene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Fluorene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Naphthalene	ND		0.0211	1	11/07/2018 19:40	WG1192376
Phenanthrene	ND		0.00633	1	11/07/2018 19:40	WG1192376
Pyrene	ND		0.00633	1	11/07/2018 19:40	WG1192376
1-Methylnaphthalene	ND		0.0211	1	11/07/2018 19:40	WG1192376
2-Methylnaphthalene	ND		0.0211	1	11/07/2018 19:40	WG1192376
2-Chloronaphthalene	ND		0.0211	1	11/07/2018 19:40	WG1192376
(S) p-Terphenyl-d14	*81.4*		*23.0-120*		*11/07/2018 19:40*	WG1192376
(S) Nitrobenzene-d5	*79.3*		*14.0-149*		*11/07/2018 19:40*	WG1192376
(S) 2-Fluorobiphenyl	*69.6*		*34.0-125*		*11/07/2018 19:40*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.0		1	11/06/2018 17:08	WG1192007

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0202	1	11/05/2018 10:59	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.02	1	11/05/2018 17:03	WG1191040
Arsenic	ND		2.02	1	11/05/2018 17:03	WG1191040
Barium	64.1		0.505	1	11/05/2018 17:03	WG1191040
Beryllium	0.246		0.202	1	11/05/2018 17:03	WG1191040
Cadmium	ND		0.505	1	11/05/2018 17:03	WG1191040
Chromium	6.06		1.01	1	11/05/2018 17:03	WG1191040
Cobalt	4.56		1.01	1	11/05/2018 17:03	WG1191040
Copper	7.09		2.02	1	11/05/2018 17:03	WG1191040
Lead	3.74		0.505	1	11/05/2018 17:03	WG1191040
Molybdenum	ND		0.505	1	11/05/2018 17:03	WG1191040
Nickel	5.51		2.02	1	11/05/2018 17:03	WG1191040
Selenium	ND		2.02	1	11/05/2018 17:03	WG1191040
Silver	ND		1.01	1	11/05/2018 17:03	WG1191040
Thallium	ND		2.02	1	11/05/2018 17:03	WG1191040
Vanadium	23.6		2.02	1	11/05/2018 17:03	WG1191040
Zinc	22.7		5.05	1	11/05/2018 17:03	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	0.185		0.109	1.08	11/07/2018 12:11	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*99.3*		*77.0-120*		*11/07/2018 12:11*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0391	1.55	11/03/2018 20:49	WG1190981
Acrylonitrile	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
Benzene	ND		0.00157	1.55	11/03/2018 20:49	WG1190981
Bromobenzene	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
Bromodichloromethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Bromoform	ND		0.0391	1.55	11/03/2018 20:49	WG1190981
Bromomethane	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
n-Butylbenzene	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
sec-Butylbenzene	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
tert-Butylbenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Carbon tetrachloride	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Chlorobenzene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Chlorodibromomethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Chloroethane	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Chloroform	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Chloromethane	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
2-Chlorotoluene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
4-Chlorotoluene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0391	1.55	11/03/2018 20:49	WG1190981
1,2-Dibromoethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Dibromomethane	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
1,2-Dichlorobenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
1,3-Dichlorobenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
1,4-Dichlorobenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Dichlorodifluoromethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,1-Dichloroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,2-Dichloroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,1-Dichloroethene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
cis-1,2-Dichloroethene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
trans-1,2-Dichloroethene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
1,2-Dichloropropane	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
1,1-Dichloropropene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,3-Dichloropropane	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
cis-1,3-Dichloropropene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
trans-1,3-Dichloropropene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
2,2-Dichloropropane	ND	J4	0.00391	1.55	11/03/2018 20:49	WG1190981
Di-isopropyl ether	ND		0.00157	1.55	11/03/2018 20:49	WG1190981
Ethylbenzene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Hexachloro-1,3-butadiene	ND		0.0391	1.55	11/03/2018 20:49	WG1190981
Isopropylbenzene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
p-Isopropyltoluene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
2-Butanone (MEK)	ND		0.0391	1.55	11/03/2018 20:49	WG1190981
Methylene Chloride	0.112		0.0391	1.55	11/03/2018 20:49	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0391	1.55	11/03/2018 20:49	WG1190981
Methyl tert-butyl ether	ND		0.00157	1.55	11/03/2018 20:49	WG1190981
Naphthalene	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
n-Propylbenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Styrene	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Tetrachloroethene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Toluene	0.0400		0.00783	1.55	11/03/2018 20:49	WG1190981
1,2,3-Trichlorobenzene	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,2,4-Trichlorobenzene	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
1,1,1-Trichloroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,1,2-Trichloroethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
Trichloroethene	ND		0.00157	1.55	11/03/2018 20:49	WG1190981
Trichlorofluoromethane	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,2,3-Trichloropropane	ND		0.0196	1.55	11/03/2018 20:49	WG1190981
1,2,4-Trimethylbenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
1,2,3-Trimethylbenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Vinyl chloride	ND		0.00391	1.55	11/03/2018 20:49	WG1190981
1,3,5-Trimethylbenzene	ND		0.00783	1.55	11/03/2018 20:49	WG1190981
Xylenes, Total	ND		0.0102	1.55	11/03/2018 20:49	WG1190981
(S) Toluene-d8	*108*		*75.0-131*		*11/03/2018 20:49*	WG1190981
(S) Dibromofluoromethane	*90.2*		*65.0-129*		*11/03/2018 20:49*	WG1190981
(S) 4-Bromofluorobenzene	*107*		*67.0-138*		*11/03/2018 20:49*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	ND		4.04	1	11/05/2018 06:36	WG1190881
C22-C32 Hydrocarbons	ND		4.04	1	11/05/2018 06:36	WG1190881
C32-C40 Hydrocarbons	ND		4.04	1	11/05/2018 06:36	WG1190881
(S) o-Terphenyl	*91.9*		*18.0-148*		*11/05/2018 06:36*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0202	1	11/08/2018 15:20	WG1192371
Alpha BHC	ND		0.0202	1	11/08/2018 15:20	WG1192371
Beta BHC	ND		0.0202	1	11/08/2018 15:20	WG1192371
Delta BHC	ND		0.0202	1	11/08/2018 15:20	WG1192371
Gamma BHC	ND		0.0202	1	11/08/2018 15:20	WG1192371
4,4-DDD	ND		0.0202	1	11/08/2018 15:20	WG1192371
4,4-DDE	ND		0.0202	1	11/08/2018 15:20	WG1192371
4,4-DDT	ND		0.0202	1	11/09/2018 13:32	WG1192371
Dieldrin	ND		0.00202	1	11/08/2018 15:20	WG1192371
Endosulfan I	ND		0.0202	1	11/08/2018 15:20	WG1192371
Endosulfan II	ND		0.0202	1	11/08/2018 15:20	WG1192371
Endosulfan sulfate	ND		0.0202	1	11/08/2018 15:20	WG1192371
Endrin	ND		0.0202	1	11/08/2018 15:20	WG1192371
Endrin aldehyde	ND		0.0202	1	11/08/2018 15:20	WG1192371
Endrin ketone	ND		0.0202	1	11/08/2018 15:20	WG1192371
Heptachlor	ND		0.0202	1	11/08/2018 15:20	WG1192371
Heptachlor epoxide	ND		0.0202	1	11/08/2018 15:20	WG1192371
Hexachlorobenzene	ND		0.0202	1	11/08/2018 15:20	WG1192371
Methoxychlor	ND		0.0202	1	11/09/2018 13:32	WG1192371
Chlordane	ND		0.202	1	11/08/2018 15:20	WG1192371
Toxaphene	ND		0.404	1	11/08/2018 15:20	WG1192371
(S) Decachlorobiphenyl	*56.9*		*10.0-135*		*11/09/2018 13:32*	WG1192371
(S) Decachlorobiphenyl	*51.9*		*10.0-135*		*11/08/2018 15:20*	WG1192371
(S) Tetrachloro-m-xylene	*63.6*		*10.0-139*		*11/08/2018 15:20*	WG1192371
(S) Tetrachloro-m-xylene	*61.5*		*10.0-139*		*11/09/2018 13:32*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0172	1	11/09/2018 21:05	WG1192371
PCB 1221	ND		0.0172	1	11/09/2018 21:05	WG1192371
PCB 1232	ND		0.0172	1	11/09/2018 21:05	WG1192371
PCB 1242	ND		0.0172	1	11/09/2018 21:05	WG1192371
PCB 1248	ND		0.0172	1	11/09/2018 21:05	WG1192371
PCB 1254	ND		0.0172	1	11/09/2018 21:05	WG1192371
PCB 1260	ND		0.0172	1	11/09/2018 21:05	WG1192371
(S) Decachlorobiphenyl	*101*		*10.0-135*		*11/09/2018 21:05*	WG1192371
(S) Tetrachloro-m-xylene	*71.9*		*10.0-139*		*11/09/2018 21:05*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Acenaphthene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Acenaphthylene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Benzo(a)anthracene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Benzo(a)pyrene	ND		0.00606	1	11/07/2018 20:01	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Benzo(g,h,i)perylene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Benzo(k)fluoranthene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Chrysene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Dibenz(a,h)anthracene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Fluoranthene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Fluorene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Naphthalene	ND		0.0202	1	11/07/2018 20:01	WG1192376
Phenanthrene	ND		0.00606	1	11/07/2018 20:01	WG1192376
Pyrene	ND		0.00606	1	11/07/2018 20:01	WG1192376
1-Methylnaphthalene	ND		0.0202	1	11/07/2018 20:01	WG1192376
2-Methylnaphthalene	ND		0.0202	1	11/07/2018 20:01	WG1192376
2-Chloronaphthalene	ND		0.0202	1	11/07/2018 20:01	WG1192376
(S) p-Terphenyl-d14	*59.3*		*23.0-120*		*11/07/2018 20:01*	WG1192376
(S) Nitrobenzene-d5	*57.4*		*14.0-149*		*11/07/2018 20:01*	WG1192376
(S) 2-Fluorobiphenyl	*50.4*		*34.0-125*		*11/07/2018 20:01*	WG1192376

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	11/06/2018 17:08	WG1192007

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0204	1	11/05/2018 11:11	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.04	1	11/05/2018 17:06	WG1191040
Arsenic	ND		2.04	1	11/05/2018 17:06	WG1191040
Barium	44.3		0.510	1	11/05/2018 17:06	WG1191040
Beryllium	0.244		0.204	1	11/05/2018 17:06	WG1191040
Cadmium	ND		0.510	1	11/05/2018 17:06	WG1191040
Chromium	6.49		1.02	1	11/05/2018 17:06	WG1191040
Cobalt	3.48		1.02	1	11/05/2018 17:06	WG1191040
Copper	23.3		2.04	1	11/05/2018 17:06	WG1191040
Lead	7.87		0.510	1	11/05/2018 17:06	WG1191040
Molybdenum	3.72		0.510	1	11/05/2018 17:06	WG1191040
Nickel	5.11		2.04	1	11/05/2018 17:06	WG1191040
Selenium	ND		2.04	1	11/05/2018 17:06	WG1191040
Silver	ND		1.02	1	11/05/2018 17:06	WG1191040
Thallium	ND		2.04	1	11/05/2018 17:06	WG1191040
Vanadium	19.3		2.04	1	11/05/2018 17:06	WG1191040
Zinc	254		5.10	1	11/05/2018 17:06	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	0.358		0.110	1.08	11/07/2018 12:35	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*86.6*		*77.0-120*		*11/07/2018 12:35*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0255	1	11/03/2018 21:08	WG1190981
Acrylonitrile	ND		0.0127	1	11/03/2018 21:08	WG1190981
Benzene	ND		0.00102	1	11/03/2018 21:08	WG1190981
Bromobenzene	ND		0.0127	1	11/03/2018 21:08	WG1190981
Bromodichloromethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
Bromoform	ND		0.0255	1	11/03/2018 21:08	WG1190981
Bromomethane	ND		0.0127	1	11/03/2018 21:08	WG1190981
n-Butylbenzene	ND		0.0127	1	11/03/2018 21:08	WG1190981
sec-Butylbenzene	ND		0.0127	1	11/03/2018 21:08	WG1190981
tert-Butylbenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
Carbon tetrachloride	ND		0.00510	1	11/03/2018 21:08	WG1190981
Chlorobenzene	ND		0.00255	1	11/03/2018 21:08	WG1190981
Chlorodibromomethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
Chloroethane	ND		0.00510	1	11/03/2018 21:08	WG1190981
Chloroform	ND		0.00255	1	11/03/2018 21:08	WG1190981
Chloromethane	ND		0.0127	1	11/03/2018 21:08	WG1190981
2-Chlorotoluene	ND		0.00255	1	11/03/2018 21:08	WG1190981
4-Chlorotoluene	ND		0.00510	1	11/03/2018 21:08	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0255	1	11/03/2018 21:08	WG1190981
1,2-Dibromoethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
Dibromomethane	ND		0.00510	1	11/03/2018 21:08	WG1190981
1,2-Dichlorobenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
1,3-Dichlorobenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
1,4-Dichlorobenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
Dichlorodifluoromethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,1-Dichloroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,2-Dichloroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,1-Dichloroethene	ND		0.00255	1	11/03/2018 21:08	WG1190981
cis-1,2-Dichloroethene	ND		0.00255	1	11/03/2018 21:08	WG1190981
trans-1,2-Dichloroethene	ND		0.00510	1	11/03/2018 21:08	WG1190981
1,2-Dichloropropane	ND		0.00510	1	11/03/2018 21:08	WG1190981
1,1-Dichloropropene	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,3-Dichloropropane	ND		0.00510	1	11/03/2018 21:08	WG1190981
cis-1,3-Dichloropropene	ND		0.00255	1	11/03/2018 21:08	WG1190981
trans-1,3-Dichloropropene	ND		0.00510	1	11/03/2018 21:08	WG1190981
2,2-Dichloropropane	ND	J4	0.00255	1	11/03/2018 21:08	WG1190981
Di-isopropyl ether	ND		0.00102	1	11/03/2018 21:08	WG1190981
Ethylbenzene	ND		0.00255	1	11/03/2018 21:08	WG1190981
Hexachloro-1,3-butadiene	ND		0.0255	1	11/03/2018 21:08	WG1190981
Isopropylbenzene	ND		0.00255	1	11/03/2018 21:08	WG1190981
p-Isopropyltoluene	ND		0.00510	1	11/03/2018 21:08	WG1190981
2-Butanone (MEK)	ND		0.0255	1	11/03/2018 21:08	WG1190981
Methylene Chloride	ND		0.0255	1	11/03/2018 21:08	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0255	1	11/03/2018 21:08	WG1190981
Methyl tert-butyl ether	ND		0.00102	1	11/03/2018 21:08	WG1190981
Naphthalene	ND		0.0127	1	11/03/2018 21:08	WG1190981
n-Propylbenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
Styrene	ND		0.0127	1	11/03/2018 21:08	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
Tetrachloroethene	ND		0.00255	1	11/03/2018 21:08	WG1190981
Toluene	0.00589		0.00510	1	11/03/2018 21:08	WG1190981
1,2,3-Trichlorobenzene	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,2,4-Trichlorobenzene	ND		0.0127	1	11/03/2018 21:08	WG1190981
1,1,1-Trichloroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,1,2-Trichloroethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
Trichloroethene	ND		0.00102	1	11/03/2018 21:08	WG1190981
Trichlorofluoromethane	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,2,3-Trichloropropane	ND		0.0127	1	11/03/2018 21:08	WG1190981
1,2,4-Trimethylbenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
1,2,3-Trimethylbenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
Vinyl chloride	ND		0.00255	1	11/03/2018 21:08	WG1190981
1,3,5-Trimethylbenzene	ND		0.00510	1	11/03/2018 21:08	WG1190981
Xylenes, Total	ND		0.00662	1	11/03/2018 21:08	WG1190981
(S) Toluene-d8	*107*		*75.0-131*		*11/03/2018 21:08*	WG1190981
(S) Dibromofluoromethane	*90.4*		*65.0-129*		*11/03/2018 21:08*	WG1190981
(S) 4-Bromofluorobenzene	*111*		*67.0-138*		*11/03/2018 21:08*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	3220		408	100	11/05/2018 10:44	WG1190881
C22-C32 Hydrocarbons	3710		408	100	11/07/2018 01:15	WG1190881
C32-C40 Hydrocarbons	8120		408	100	11/05/2018 10:44	WG1190881
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*11/07/2018 01:15*	WG1190881
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*11/05/2018 10:44*	WG1190881

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0204	1	11/08/2018 11:47	WG1192371
Alpha BHC	ND		0.0204	1	11/08/2018 11:47	WG1192371
Beta BHC	ND		0.0204	1	11/08/2018 11:47	WG1192371
Delta BHC	ND		0.0204	1	11/08/2018 11:47	WG1192371
Gamma BHC	ND		0.0204	1	11/08/2018 11:47	WG1192371
4,4-DDD	ND		0.0204	1	11/08/2018 11:47	WG1192371
4,4-DDE	ND		0.0204	1	11/08/2018 11:47	WG1192371
4,4-DDT	ND		0.0204	1	11/08/2018 11:47	WG1192371
Dieldrin	ND		0.00204	1	11/08/2018 11:47	WG1192371
Endosulfan I	ND		0.0204	1	11/08/2018 11:47	WG1192371
Endosulfan II	ND		0.0204	1	11/08/2018 11:47	WG1192371
Endosulfan sulfate	ND		0.0204	1	11/08/2018 11:47	WG1192371
Endrin	ND		0.0204	1	11/08/2018 11:47	WG1192371
Endrin aldehyde	ND		0.0204	1	11/08/2018 11:47	WG1192371
Endrin ketone	ND		0.0204	1	11/08/2018 11:47	WG1192371
Heptachlor	ND		0.0204	1	11/08/2018 11:47	WG1192371
Heptachlor epoxide	ND		0.0204	1	11/08/2018 11:47	WG1192371
Hexachlorobenzene	ND		0.0204	1	11/08/2018 11:47	WG1192371
Methoxychlor	ND		0.0204	1	11/08/2018 11:47	WG1192371
Chlordane	ND		0.204	1	11/08/2018 11:47	WG1192371
Toxaphene	ND		0.408	1	11/08/2018 11:47	WG1192371
(S) Decachlorobiphenyl	*13.6*		*10.0-135*		*11/08/2018 11:47*	WG1192371
(S) Tetrachloro-m-xylene	*48.9*		*10.0-139*		*11/08/2018 11:47*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0173	1	11/09/2018 23:05	WG1192371
PCB 1221	ND		0.0173	1	11/09/2018 23:05	WG1192371
PCB 1232	ND		0.0173	1	11/09/2018 23:05	WG1192371
PCB 1242	ND		0.0173	1	11/09/2018 23:05	WG1192371
PCB 1248	ND		0.0173	1	11/09/2018 23:05	WG1192371
PCB 1254	ND		0.0173	1	11/09/2018 23:05	WG1192371
PCB 1260	ND		0.0173	1	11/09/2018 23:05	WG1192371
(S) Decachlorobiphenyl	*146*	J1	*10.0-135*		*11/09/2018 23:05*	WG1192371
(S) Tetrachloro-m-xylene	*92.2*		*10.0-139*		*11/09/2018 23:05*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.122	20	11/07/2018 21:04	WG1192376
Acenaphthene	ND		0.122	20	11/07/2018 21:04	WG1192376
Acenaphthylene	ND		0.122	20	11/07/2018 21:04	WG1192376
Benzo(a)anthracene	ND		0.122	20	11/07/2018 21:04	WG1192376
Benzo(a)pyrene	ND		0.122	20	11/07/2018 21:04	WG1192376
Benzo(b)fluoranthene	ND		0.122	20	11/07/2018 21:04	WG1192376

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.122	20	11/07/2018 21:04	WG1192376
Benzo(k)fluoranthene	ND		0.122	20	11/07/2018 21:04	WG1192376
Chrysene	ND		0.122	20	11/07/2018 21:04	WG1192376
Dibenz(a,h)anthracene	ND		0.122	20	11/07/2018 21:04	WG1192376
Fluoranthene	ND		0.122	20	11/07/2018 21:04	WG1192376
Fluorene	ND		0.122	20	11/07/2018 21:04	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.122	20	11/07/2018 21:04	WG1192376
Naphthalene	ND		0.408	20	11/07/2018 21:04	WG1192376
Phenanthrene	ND		0.122	20	11/07/2018 21:04	WG1192376
Pyrene	ND		0.122	20	11/07/2018 21:04	WG1192376
1-Methylnaphthalene	ND		0.408	20	11/07/2018 21:04	WG1192376
2-Methylnaphthalene	ND		0.408	20	11/07/2018 21:04	WG1192376
2-Chloronaphthalene	ND		0.408	20	11/07/2018 21:04	WG1192376
(S) p-Terphenyl-d14	*2.11*	J7	*23.0-120*		*11/07/2018 21:04*	WG1192376
(S) Nitrobenzene-d5	*55.7*	J7	*14.0-149*		*11/07/2018 21:04*	WG1192376
(S) 2-Fluorobiphenyl	*52.2*	J7	*34.0-125*		*11/07/2018 21:04*	WG1192376

Sample Narrative:

L1040274-10 WG1192376: Diluted due to viscosity

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	11/06/2018 17:08	WG1192007

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	ND		0.0203	1	11/05/2018 11:14	WG1191289

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Antimony	ND		2.03	1	11/05/2018 17:08	WG1191040
Arsenic	ND		2.03	1	11/05/2018 17:08	WG1191040
Barium	64.3		0.508	1	11/05/2018 17:08	WG1191040
Beryllium	0.287		0.203	1	11/05/2018 17:08	WG1191040
Cadmium	ND		0.508	1	11/05/2018 17:08	WG1191040
Chromium	7.64		1.02	1	11/05/2018 17:08	WG1191040
Cobalt	4.65		1.02	1	11/05/2018 17:08	WG1191040
Copper	10.7		2.03	1	11/05/2018 17:08	WG1191040
Lead	4.83		0.508	1	11/05/2018 17:08	WG1191040
Molybdenum	0.589		0.508	1	11/05/2018 17:08	WG1191040
Nickel	6.37		2.03	1	11/05/2018 17:08	WG1191040
Selenium	ND		2.03	1	11/05/2018 17:08	WG1191040
Silver	ND		1.02	1	11/05/2018 17:08	WG1191040
Thallium	ND		2.03	1	11/05/2018 17:08	WG1191040
Vanadium	25.4		2.03	1	11/05/2018 17:08	WG1191040
Zinc	42.0		5.08	1	11/05/2018 17:08	WG1191040

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		0.102	1	11/07/2018 14:36	WG1192324
(S) a,a,a-Trifluorotoluene(FID)	*85.8*		*77.0-120*		*11/07/2018 14:36*	WG1192324

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0285	1.12	11/03/2018 21:27	WG1190981
Acrylonitrile	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
Benzene	ND		0.00114	1.12	11/03/2018 21:27	WG1190981
Bromobenzene	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
Bromodichloromethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Bromoform	ND		0.0285	1.12	11/03/2018 21:27	WG1190981
Bromomethane	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
n-Butylbenzene	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
sec-Butylbenzene	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
tert-Butylbenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Carbon tetrachloride	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Chlorobenzene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Chlorodibromomethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Chloroethane	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Chloroform	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Chloromethane	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
2-Chlorotoluene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
4-Chlorotoluene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	ND		0.0285	1.12	11/03/2018 21:27	WG1190981
1,2-Dibromoethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Dibromomethane	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
1,2-Dichlorobenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
1,3-Dichlorobenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
1,4-Dichlorobenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Dichlorodifluoromethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,1-Dichloroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,2-Dichloroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,1-Dichloroethene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
cis-1,2-Dichloroethene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
trans-1,2-Dichloroethene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
1,2-Dichloropropane	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
1,1-Dichloropropene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,3-Dichloropropane	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
cis-1,3-Dichloropropene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
trans-1,3-Dichloropropene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
2,2-Dichloropropane	ND	J4	0.00285	1.12	11/03/2018 21:27	WG1190981
Di-isopropyl ether	ND		0.00114	1.12	11/03/2018 21:27	WG1190981
Ethylbenzene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Hexachloro-1,3-butadiene	ND		0.0285	1.12	11/03/2018 21:27	WG1190981
Isopropylbenzene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
p-Isopropyltoluene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
2-Butanone (MEK)	ND		0.0285	1.12	11/03/2018 21:27	WG1190981
Methylene Chloride	0.0651		0.0285	1.12	11/03/2018 21:27	WG1190981
4-Methyl-2-pentanone (MIBK)	ND		0.0285	1.12	11/03/2018 21:27	WG1190981
Methyl tert-butyl ether	ND		0.00114	1.12	11/03/2018 21:27	WG1190981
Naphthalene	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
n-Propylbenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Styrene	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
1,1,1,2-Tetrachloroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,1,2,2-Tetrachloroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,1,2-Trichlorotrifluoroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Tetrachloroethene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Toluene	0.0182		0.00569	1.12	11/03/2018 21:27	WG1190981
1,2,3-Trichlorobenzene	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,2,4-Trichlorobenzene	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
1,1,1-Trichloroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,1,2-Trichloroethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
Trichloroethene	ND		0.00114	1.12	11/03/2018 21:27	WG1190981
Trichlorofluoromethane	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,2,3-Trichloropropane	ND		0.0142	1.12	11/03/2018 21:27	WG1190981
1,2,4-Trimethylbenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
1,2,3-Trimethylbenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Vinyl chloride	ND		0.00285	1.12	11/03/2018 21:27	WG1190981
1,3,5-Trimethylbenzene	ND		0.00569	1.12	11/03/2018 21:27	WG1190981
Xylenes, Total	ND		0.00740	1.12	11/03/2018 21:27	WG1190981
(S) Toluene-d8	*108*		*75.0-131*		*11/03/2018 21:27*	WG1190981
(S) Dibromofluoromethane	*92.6*		*65.0-129*		*11/03/2018 21:27*	WG1190981
(S) 4-Bromofluorobenzene	*111*		*67.0-138*		*11/03/2018 21:27*	WG1190981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	251		20.3	5	11/07/2018 01:30	WG1190881
C22-C32 Hydrocarbons	3070		102	25	11/07/2018 13:36	WG1190881
C32-C40 Hydrocarbons	701		20.3	5	11/07/2018 01:30	WG1190881
(S) o-Terphenyl	*150*	J1	*18.0-148*		*11/07/2018 01:30*	WG1190881
(S) o-Terphenyl	*0.000*	J7	*18.0-148*		*11/07/2018 13:36*	WG1190881

Sample Narrative:

L1040274-11 WG1190881: Surrogate failure due to matrix interference

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0203	1	11/08/2018 15:32	WG1192371
Alpha BHC	ND		0.0203	1	11/08/2018 15:32	WG1192371
Beta BHC	ND		0.0203	1	11/08/2018 15:32	WG1192371
Delta BHC	ND		0.0203	1	11/08/2018 15:32	WG1192371
Gamma BHC	ND		0.0203	1	11/08/2018 15:32	WG1192371
4,4-DDD	ND		0.0203	1	11/08/2018 15:32	WG1192371
4,4-DDE	ND		0.0203	1	11/08/2018 15:32	WG1192371
4,4-DDT	ND		0.0203	1	11/09/2018 13:45	WG1192371
Dieldrin	ND		0.00203	1	11/08/2018 15:32	WG1192371
Endosulfan I	ND		0.0203	1	11/08/2018 15:32	WG1192371
Endosulfan II	ND		0.0203	1	11/08/2018 15:32	WG1192371
Endosulfan sulfate	ND		0.0203	1	11/08/2018 15:32	WG1192371
Endrin	ND		0.0203	1	11/08/2018 15:32	WG1192371
Endrin aldehyde	ND		0.0203	1	11/08/2018 15:32	WG1192371
Endrin ketone	ND		0.0203	1	11/08/2018 15:32	WG1192371
Heptachlor	ND		0.0203	1	11/08/2018 15:32	WG1192371
Heptachlor epoxide	ND		0.0203	1	11/08/2018 15:32	WG1192371
Hexachlorobenzene	ND		0.0203	1	11/08/2018 15:32	WG1192371
Methoxychlor	ND		0.0203	1	11/09/2018 13:45	WG1192371
Chlordane	ND		0.203	1	11/08/2018 15:32	WG1192371
Toxaphene	ND		0.407	1	11/08/2018 15:32	WG1192371
(S) Decachlorobiphenyl	*61.0*		*10.0-135*		*11/09/2018 13:45*	WG1192371
(S) Decachlorobiphenyl	*61.3*		*10.0-135*		*11/08/2018 15:32*	WG1192371
(S) Tetrachloro-m-xylene	*78.6*		*10.0-139*		*11/08/2018 15:32*	WG1192371
(S) Tetrachloro-m-xylene	*73.0*		*10.0-139*		*11/09/2018 13:45*	WG1192371

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0173	1	11/09/2018 22:20	WG1192371
PCB 1221	ND		0.0173	1	11/09/2018 22:20	WG1192371
PCB 1232	ND		0.0173	1	11/09/2018 22:20	WG1192371
PCB 1242	ND		0.0173	1	11/09/2018 22:20	WG1192371
PCB 1248	ND		0.0173	1	11/09/2018 22:20	WG1192371
PCB 1254	ND		0.0173	1	11/09/2018 22:20	WG1192371
PCB 1260	ND		0.0173	1	11/09/2018 22:20	WG1192371
(S) Decachlorobiphenyl	*128*		*10.0-135*		*11/09/2018 22:20*	WG1192371
(S) Tetrachloro-m-xylene	*79.2*		*10.0-139*		*11/09/2018 22:20*	WG1192371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Acenaphthene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Acenaphthylene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Benzo(a)anthracene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Benzo(a)pyrene	ND		0.122	20	11/08/2018 10:41	WG1192376
Benzo(b)fluoranthene	ND		0.122	20	11/08/2018 10:41	WG1192376
Benzo(g,h,i)perylene	ND		0.122	20	11/08/2018 10:41	WG1192376
Benzo(k)fluoranthene	ND		0.122	20	11/08/2018 10:41	WG1192376
Chrysene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Dibenz(a,h)anthracene	ND		0.122	20	11/08/2018 10:41	WG1192376
Fluoranthene	0.00978		0.00610	1	11/08/2018 09:38	WG1192376
Fluorene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Indeno(1,2,3-cd)pyrene	ND		0.122	20	11/08/2018 10:41	WG1192376
Naphthalene	ND		0.0203	1	11/08/2018 09:38	WG1192376
Phenanthrene	ND		0.00610	1	11/08/2018 09:38	WG1192376
Pyrene	0.0495		0.00610	1	11/08/2018 09:38	WG1192376
1-Methylnaphthalene	ND		0.0203	1	11/08/2018 09:38	WG1192376
2-Methylnaphthalene	ND		0.0203	1	11/08/2018 09:38	WG1192376
2-Chloronaphthalene	ND		0.0203	1	11/08/2018 09:38	WG1192376
(S) p-Terphenyl-d14	*180*	J1	*23.0-120*		*11/08/2018 09:38*	WG1192376
(S) p-Terphenyl-d14	*72.8*	J7	*23.0-120*		*11/08/2018 10:41*	WG1192376
(S) Nitrobenzene-d5	*84.3*		*14.0-149*		*11/08/2018 09:38*	WG1192376
(S) Nitrobenzene-d5	*76.5*	J7	*14.0-149*		*11/08/2018 10:41*	WG1192376
(S) 2-Fluorobiphenyl	*65.5*	J7	*34.0-125*		*11/08/2018 10:41*	WG1192376
(S) 2-Fluorobiphenyl	*64.1*		*34.0-125*		*11/08/2018 09:38*	WG1192376

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	11/04/2018 15:05	WG1190187

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		2.00	1	11/04/2018 19:33	WG1190861
Arsenic	11.1		2.00	1	11/04/2018 19:33	WG1190861
Barium	30.1		5.00	1	11/04/2018 19:33	WG1190861
Beryllium	ND		2.00	1	11/04/2018 19:33	WG1190861
Cadmium	ND		1.00	1	11/04/2018 19:33	WG1190861
Chromium	4.72		2.00	1	11/04/2018 19:33	WG1190861
Copper	ND		5.00	1	11/04/2018 19:33	WG1190861
Cobalt	ND		2.00	1	11/04/2018 19:33	WG1190861
Lead	43.6		2.00	1	11/04/2018 19:33	WG1190861
Molybdenum	ND		5.00	1	11/04/2018 19:33	WG1190861
Nickel	ND		2.00	1	11/04/2018 19:33	WG1190861
Selenium	ND		2.00	1	11/04/2018 19:33	WG1190861
Silver	ND		2.00	1	11/04/2018 19:33	WG1190861
Thallium	ND		2.00	1	11/04/2018 19:33	WG1190861
Vanadium	14.7		5.00	1	11/04/2018 19:33	WG1190861
Zinc	35.1		25.0	1	11/04/2018 19:33	WG1190861

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	11/02/2018 23:46	WG1190758
Acrolein	ND		50.0	1	11/02/2018 23:46	WG1190758
Acrylonitrile	ND		10.0	1	11/02/2018 23:46	WG1190758
Benzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Bromobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Bromodichloromethane	ND		1.00	1	11/02/2018 23:46	WG1190758
Bromoform	ND		1.00	1	11/02/2018 23:46	WG1190758
Bromomethane	ND		5.00	1	11/02/2018 23:46	WG1190758
n-Butylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
sec-Butylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
tert-Butylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Carbon tetrachloride	ND		1.00	1	11/02/2018 23:46	WG1190758
Chlorobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Chlorodibromomethane	ND		1.00	1	11/02/2018 23:46	WG1190758
Chloroethane	ND		5.00	1	11/02/2018 23:46	WG1190758
Chloroform	ND		5.00	1	11/02/2018 23:46	WG1190758
Chloromethane	ND		2.50	1	11/02/2018 23:46	WG1190758
2-Chlorotoluene	ND		1.00	1	11/02/2018 23:46	WG1190758
4-Chlorotoluene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2-Dibromo-3-Chloropropane	ND		5.00	1	11/02/2018 23:46	WG1190758
1,2-Dibromoethane	ND		1.00	1	11/02/2018 23:46	WG1190758
Dibromomethane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2-Dichlorobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,3-Dichlorobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,4-Dichlorobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Dichlorodifluoromethane	ND		5.00	1	11/02/2018 23:46	WG1190758
1,1-Dichloroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2-Dichloroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1-Dichloroethene	ND		1.00	1	11/02/2018 23:46	WG1190758
cis-1,2-Dichloroethene	ND		1.00	1	11/02/2018 23:46	WG1190758

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
trans-1,2-Dichloroethene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2-Dichloropropane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1-Dichloropropene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,3-Dichloropropane	ND		1.00	1	11/02/2018 23:46	WG1190758
cis-1,3-Dichloropropene	ND		1.00	1	11/02/2018 23:46	WG1190758
trans-1,3-Dichloropropene	ND		1.00	1	11/02/2018 23:46	WG1190758
2,2-Dichloropropane	ND		1.00	1	11/02/2018 23:46	WG1190758
Di-isopropyl ether	ND		1.00	1	11/02/2018 23:46	WG1190758
Ethylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Hexachloro-1,3-butadiene	ND		1.00	1	11/02/2018 23:46	WG1190758
Isopropylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
p-Isopropyltoluene	ND		1.00	1	11/02/2018 23:46	WG1190758
2-Butanone (MEK)	ND		10.0	1	11/02/2018 23:46	WG1190758
Methylene Chloride	ND		5.00	1	11/02/2018 23:46	WG1190758
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	11/02/2018 23:46	WG1190758
Methyl tert-butyl ether	ND		1.00	1	11/02/2018 23:46	WG1190758
Naphthalene	ND		5.00	1	11/02/2018 23:46	WG1190758
n-Propylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Styrene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1,2,2-Tetrachloroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
Tetrachloroethene	ND		1.00	1	11/02/2018 23:46	WG1190758
Toluene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2,3-Trichlorobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2,4-Trichlorobenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1,1-Trichloroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
1,1,2-Trichloroethane	ND		1.00	1	11/02/2018 23:46	WG1190758
Trichloroethene	ND		1.00	1	11/02/2018 23:46	WG1190758
Trichlorofluoromethane	ND		5.00	1	11/02/2018 23:46	WG1190758
1,2,3-Trichloropropane	ND		2.50	1	11/02/2018 23:46	WG1190758
1,2,4-Trimethylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,2,3-Trimethylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
1,3,5-Trimethylbenzene	ND		1.00	1	11/02/2018 23:46	WG1190758
Vinyl chloride	ND		1.00	1	11/02/2018 23:46	WG1190758
Xylenes, Total	ND		3.00	1	11/02/2018 23:46	WG1190758
(S) Toluene-d8	*101*		*80.0-120*		*11/02/2018 23:46*	WG1190758
(S) Dibromofluoromethane	*106*		*75.0-120*		*11/02/2018 23:46*	WG1190758
(S) 4-Bromofluorobenzene	*86.3*		*77.0-126*		*11/02/2018 23:46*	WG1190758

OP Pesticides by Method 8141

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Azinphos-Methyl	ND		1.00	1	11/06/2018 08:10	WG1190371
Bolstar (Sulprofos)	ND		1.00	1	11/06/2018 08:10	WG1190371
Chlorpyrifos	ND		1.00	1	11/06/2018 08:10	WG1190371
Coumaphos	ND		1.00	1	11/06/2018 08:10	WG1190371
Demeton,-O and -S	ND		2.00	1	11/06/2018 08:10	WG1190371
Diazinon	ND		1.00	1	11/06/2018 08:10	WG1190371
Dichlorvos	ND		2.00	1	11/06/2018 08:10	WG1190371
Dimethoate	ND		1.00	1	11/06/2018 08:10	WG1190371
Disulfoton	ND		1.00	1	11/06/2018 08:10	WG1190371
EPN	ND		1.00	1	11/06/2018 08:10	WG1190371
Ethoprop	ND		1.00	1	11/06/2018 08:10	WG1190371
Ethyl Parathion	ND		1.00	1	11/06/2018 08:10	WG1190371
Fensulfothion	ND		1.00	1	11/06/2018 08:10	WG1190371

OP Pesticides by Method 8141

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Fenthion	ND		1.00	1	11/06/2018 08:10	WG1190371
Malathion	ND		1.00	1	11/06/2018 08:10	WG1190371
Merphos	ND		2.00	1	11/06/2018 08:10	WG1190371
Methyl parathion	ND		1.00	1	11/06/2018 08:10	WG1190371
Mevinphos	ND		1.00	1	11/06/2018 08:10	WG1190371
Naled	ND		1.00	1	11/06/2018 08:10	WG1190371
Phorate	ND		1.00	1	11/06/2018 08:10	WG1190371
Ronnel	ND		1.00	1	11/06/2018 08:10	WG1190371
Stirophos	ND		1.00	1	11/06/2018 08:10	WG1190371
Sulfotep	ND		1.00	1	11/06/2018 08:10	WG1190371
TEPP	ND	J3 J4	20.0	1	11/06/2018 08:10	WG1190371
Tokuthion (Prothothiofos)	ND		1.00	1	11/06/2018 08:10	WG1190371
Trichloronate	ND		1.00	1	11/06/2018 08:10	WG1190371
(S) Triphenyl Phosphate	*95.6*		*42.0-129*		*11/06/2018 08:10*	WG1190371

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		1.00	1	11/06/2018 17:15	WG1191290
Acenaphthylene	ND		1.00	1	11/06/2018 17:15	WG1191290
Anthracene	ND		1.00	1	11/06/2018 17:15	WG1191290
Benzidine	ND	J3 J4	10.0	1	11/06/2018 17:15	WG1191290
Benzo(a)anthracene	ND		1.00	1	11/06/2018 17:15	WG1191290
Benzo(b)fluoranthene	ND		1.00	1	11/06/2018 17:15	WG1191290
Benzo(k)fluoranthene	ND		1.00	1	11/06/2018 17:15	WG1191290
Benzo(g,h,i)perylene	ND		1.00	1	11/06/2018 17:15	WG1191290
Benzo(a)pyrene	ND		1.00	1	11/06/2018 17:15	WG1191290
Bis(2-chlorethoxy)methane	ND		10.0	1	11/06/2018 17:15	WG1191290
Bis(2-chloroethyl)ether	ND		10.0	1	11/06/2018 17:15	WG1191290
Bis(2-chloroisopropyl)ether	ND		10.0	1	11/06/2018 17:15	WG1191290
4-Bromophenyl-phenylether	ND		10.0	1	11/06/2018 17:15	WG1191290
2-Chloronaphthalene	ND		1.00	1	11/06/2018 17:15	WG1191290
4-Chlorophenyl-phenylether	ND		10.0	1	11/06/2018 17:15	WG1191290
Chrysene	ND		1.00	1	11/06/2018 17:15	WG1191290
Dibenz(a,h)anthracene	ND		1.00	1	11/06/2018 17:15	WG1191290
3,3-Dichlorobenzidine	ND		10.0	1	11/06/2018 17:15	WG1191290
2,4-Dinitrotoluene	ND		10.0	1	11/06/2018 17:15	WG1191290
2,6-Dinitrotoluene	ND		10.0	1	11/06/2018 17:15	WG1191290
Fluoranthene	ND		1.00	1	11/06/2018 17:15	WG1191290
Fluorene	ND		1.00	1	11/06/2018 17:15	WG1191290
Hexachlorobenzene	ND		1.00	1	11/06/2018 17:15	WG1191290
Hexachloro-1,3-butadiene	ND		10.0	1	11/06/2018 17:15	WG1191290
Hexachlorocyclopentadiene	ND		10.0	1	11/06/2018 17:15	WG1191290
Hexachloroethane	ND		10.0	1	11/06/2018 17:15	WG1191290
Indeno(1,2,3-cd)pyrene	ND		1.00	1	11/06/2018 17:15	WG1191290
Isophorone	ND		10.0	1	11/06/2018 17:15	WG1191290
Naphthalene	ND		1.00	1	11/06/2018 17:15	WG1191290
Nitrobenzene	ND		10.0	1	11/06/2018 17:15	WG1191290
n-Nitrosodimethylamine	ND		10.0	1	11/06/2018 17:15	WG1191290
n-Nitrosodiphenylamine	ND		10.0	1	11/06/2018 17:15	WG1191290
n-Nitrosodi-n-propylamine	ND		10.0	1	11/06/2018 17:15	WG1191290
Phenanthrene	ND		1.00	1	11/06/2018 17:15	WG1191290
Benzylbutyl phthalate	ND		3.00	1	11/06/2018 17:15	WG1191290
Bis(2-ethylhexyl)phthalate	ND		3.00	1	11/06/2018 17:15	WG1191290
Di-n-butyl phthalate	ND		3.00	1	11/06/2018 17:15	WG1191290
Diethyl phthalate	ND		3.00	1	11/06/2018 17:15	WG1191290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dimethyl phthalate	ND		3.00	1	11/06/2018 17:15	WG1191290
Di-n-octyl phthalate	ND		3.00	1	11/06/2018 17:15	WG1191290
Pyrene	ND		1.00	1	11/06/2018 17:15	WG1191290
1,2,4-Trichlorobenzene	ND		10.0	1	11/06/2018 17:15	WG1191290
4-Chloro-3-methylphenol	ND		10.0	1	11/06/2018 17:15	WG1191290
2-Chlorophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
2,4-Dichlorophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
2,4-Dimethylphenol	ND		10.0	1	11/06/2018 17:15	WG1191290
4,6-Dinitro-2-methylphenol	ND		10.0	1	11/06/2018 17:15	WG1191290
2,4-Dinitrophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
2-Nitrophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
4-Nitrophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
Pentachlorophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
Phenol	ND		10.0	1	11/06/2018 17:15	WG1191290
2,4,6-Trichlorophenol	ND		10.0	1	11/06/2018 17:15	WG1191290
(S) 2-Fluorophenol	*33.8*		*10.0-120*		*11/06/2018 17:15*	WG1191290
(S) Phenol-d5	*20.9*		*10.0-120*		*11/06/2018 17:15*	WG1191290
(S) Nitrobenzene-d5	*48.0*		*10.0-127*		*11/06/2018 17:15*	WG1191290
(S) 2-Fluorobiphenyl	*53.4*		*10.0-130*		*11/06/2018 17:15*	WG1191290
(S) 2,4,6-Tribromophenol	*57.5*		*10.0-155*		*11/06/2018 17:15*	WG1191290
(S) p-Terphenyl-d14	*60.2*		*10.0-128*		*11/06/2018 17:15*	WG1191290

Method Blank (MB)

(MB) R3357558-1 11/06/18 13:31

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1040274-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1040274-01 11/06/18 13:31 • (DUP) R3357558-3 11/06/18 13:31

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.1	80.2	1	2.40		10

Laboratory Control Sample (LCS)

(LCS) R3357558-2 11/06/18 13:31

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3357578-1 11/06/18 17:08

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1040274-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1040274-11 11/06/18 17:08 • (DUP) R3357578-3 11/06/18 17:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.4	98.2	1	0.161		10

Laboratory Control Sample (LCS)

(LCS) R3357578-2 11/06/18 17:08

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3356758-1 11/04/18 14:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury	U		0.0490	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356758-2 11/04/18 14:16 • (LCSD) R3356758-3 11/04/18 14:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	3.00	2.75	2.78	91.5	92.8	80.0-120			1.36	20

L1040258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040258-01 11/04/18 14:21 • (MS) R3356758-4 11/04/18 14:29 • (MSD) R3356758-5 11/04/18 14:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	3.00	ND	2.93	2.98	97.5	99.4	1	75.0-125			1.90	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3357021-1 11/05/18 10:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357021-2 11/05/18 10:12 • (LCSD) R3357021-5 11/05/18 14:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.251	0.258	83.6	86.0	80.0-120			2.84	20

L1040787-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040787-01 11/05/18 10:18 • (MS) R3357021-3 11/05/18 10:20 • (MSD) R3357021-4 11/05/18 10:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.383	ND	0.306	0.281	75.1	68.4	1	75.0-125		J6	8.66	20

Method Blank (MB)

(MB) R3357095-1 11/05/18 15:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.750	2.00
Arsenic	U		0.460	2.00
Barium	U		0.170	0.500
Beryllium	U		0.0700	0.200
Cadmium	U		0.0700	0.500
Chromium	U		0.140	1.00
Cobalt	U		0.230	1.00
Copper	U		0.530	2.00
Lead	U		0.190	0.500
Molybdenum	U		0.160	0.500
Nickel	U		0.490	2.00
Selenium	U		0.620	2.00
Silver	U		0.120	1.00
Thallium	U		0.650	2.00
Vanadium	U		0.240	2.00
Zinc	U		0.590	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357095-2 11/05/18 15:52 • (LCSD) R3357095-3 11/05/18 15:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	101	102	101	102	80.0-120			0.928	20
Arsenic	100	100	101	100	101	80.0-120			0.592	20
Barium	100	108	109	108	109	80.0-120			1.17	20
Beryllium	100	105	106	105	106	80.0-120			0.785	20
Cadmium	100	97.3	98.7	97.3	98.7	80.0-120			1.34	20
Chromium	100	100	101	100	101	80.0-120			0.875	20
Cobalt	100	102	103	102	103	80.0-120			1.52	20
Copper	100	102	103	102	103	80.0-120			1.01	20
Lead	100	103	104	103	104	80.0-120			1.42	20
Molybdenum	100	102	104	102	104	80.0-120			1.08	20
Nickel	100	102	104	102	104	80.0-120			1.67	20
Selenium	100	96.9	98.0	96.9	98.0	80.0-120			1.17	20
Silver	20.0	18.3	18.6	91.7	92.8	80.0-120			1.24	20
Thallium	100	95.0	96.7	95.0	96.7	80.0-120			1.77	20
Vanadium	100	103	104	103	104	80.0-120			1.05	20
Zinc	100	98.2	99.5	98.2	99.5	80.0-120			1.36	20

L1040227-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040227-01 11/05/18 15:58 • (MS) R3357095-6 11/05/18 16:06 • (MSD) R3357095-7 11/05/18 16:09

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	111	U	111	108	99.6	96.6	1	75.0-125			3.04	20
Arsenic	111	1.75	120	119	106	105	1	75.0-125			1.35	20
Barium	111	33.8	146	146	101	101	1	75.0-125			0.262	20
Beryllium	111	0.143	111	114	99.8	102	1	75.0-125			2.47	20
Cadmium	111	0.418	117	115	104	103	1	75.0-125			1.77	20
Chromium	111	10.8	112	115	90.8	93.2	1	75.0-125			2.30	20
Cobalt	111	0.838	117	116	104	103	1	75.0-125			0.821	20
Copper	111	18.1	136	140	105	109	1	75.0-125			3.05	20
Lead	111	43.5	158	157	103	102	1	75.0-125			0.884	20
Molybdenum	111	0.711	113	113	101	100	1	75.0-125			0.334	20
Nickel	111	5.14	119	119	102	102	1	75.0-125			0.400	20
Selenium	111	U	117	115	105	103	1	75.0-125			1.43	20
Silver	22.3	U	22.1	21.7	98.9	97.3	1	75.0-125			1.70	20
Thallium	111	U	104	105	93.2	94.1	1	75.0-125			0.959	20
Vanadium	111	13.0	123	126	98.8	102	1	75.0-125			2.52	20
Zinc	111	56.0	150	160	84.5	93.2	1	75.0-125			6.24	20

Method Blank (MB)

(MB) R3356768-1 11/04/18 18:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		0.754	2.00
Arsenic	U		0.250	2.00
Barium	U		0.360	5.00
Beryllium	U		0.120	2.00
Cadmium	U		0.160	1.00
Chromium	U		0.540	2.00
Copper	U		0.520	5.00
Cobalt	U		0.260	2.00
Lead	U		0.240	2.00
Molybdenum	U		0.140	5.00
Nickel	U		0.350	2.00
Selenium	U		0.380	2.00
Silver	U		0.310	2.00
Thallium	U		0.190	2.00
Vanadium	U		0.180	5.00
Zinc	U		2.56	25.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356768-2 11/04/18 18:14 • (LCSD) R3356768-3 11/04/18 18:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	59.2	59.7	118	119	80.0-120			0.709	20
Arsenic	50.0	47.7	47.2	95.4	94.4	80.0-120			1.04	20
Barium	50.0	45.8	44.5	91.6	88.9	80.0-120			2.92	20
Beryllium	50.0	48.0	47.3	95.9	94.7	80.0-120			1.28	20
Cadmium	50.0	48.6	49.1	97.1	98.1	80.0-120			1.00	20
Chromium	50.0	48.7	49.0	97.4	98.0	80.0-120			0.571	20
Copper	50.0	49.0	50.1	98.0	100	80.0-120			2.22	20
Cobalt	50.0	49.4	49.4	98.7	98.8	80.0-120			0.120	20
Lead	50.0	45.9	46.4	91.8	92.9	80.0-120			1.14	20
Molybdenum	50.0	47.2	47.7	94.4	95.4	80.0-120			1.08	20
Nickel	50.0	48.7	50.0	97.4	100	80.0-120			2.72	20
Selenium	50.0	51.1	51.0	102	102	80.0-120			0.206	20
Silver	50.0	49.6	49.7	99.2	99.3	80.0-120			0.108	20
Thallium	50.0	46.9	46.7	93.7	93.5	80.0-120			0.292	20
Vanadium	50.0	47.8	48.1	95.6	96.3	80.0-120			0.727	20
Zinc	50.0	49.6	49.4	99.2	98.9	80.0-120			0.296	20

L1040410-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040410-08 11/04/18 18:22 • (MS) R3356768-5 11/04/18 18:30 • (MSD) R3356768-6 11/04/18 18:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	60.1	61.1	120	122	1	75.0-125			1.56	20
Arsenic	50.0	74.7	119	122	89.3	94.2	1	75.0-125			2.04	20
Barium	50.0	116	166	161	101	90.6	1	75.0-125			3.04	20
Beryllium	50.0	ND	46.4	46.9	92.8	93.8	1	75.0-125			1.05	20
Cadmium	50.0	ND	48.4	48.6	96.7	97.1	1	75.0-125			0.420	20
Chromium	50.0	ND	47.1	47.4	94.2	94.8	1	75.0-125			0.649	20
Copper	50.0	ND	47.1	47.2	92.4	92.6	1	75.0-125			0.271	20
Cobalt	50.0	20.1	67.8	67.6	95.5	95.1	1	75.0-125			0.295	20
Lead	50.0	ND	46.6	47.1	93.3	94.2	1	75.0-125			0.934	20
Molybdenum	50.0	ND	48.2	48.0	96.3	96.0	1	75.0-125			0.362	20
Nickel	50.0	24.6	71.8	72.0	94.4	94.8	1	75.0-125			0.299	20
Selenium	50.0	ND	54.6	53.2	109	106	1	75.0-125			2.63	20
Silver	50.0	ND	49.6	49.4	99.3	98.8	1	75.0-125			0.503	20
Thallium	50.0	ND	46.5	47.7	93.0	95.4	1	75.0-125			2.54	20
Vanadium	50.0	ND	47.1	45.7	94.1	91.4	1	75.0-125			2.92	20
Zinc	50.0	ND	47.4	46.8	94.9	93.6	1	75.0-125			1.36	20

Method Blank (MB)

(MB) R3357591-3 11/07/18 01:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	U		0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357591-1 11/07/18 00:28 • (LCSD) R3357591-2 11/07/18 00:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	5.50	5.47	5.63	99.5	102	72.0-125			2.91	20
(S) a,a,a-Trifluorotoluene(FID)				*104*	*104*	*77.0-120*				

L1040268-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040268-01 11/07/18 05:43 • (MS) R3357591-4 11/07/18 06:07 • (MSD) R3357591-5 11/07/18 06:31

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	7.30		37.1	37.1	26.2	26.2	25	10.0-141			0.156	29
(S) a,a,a-Trifluorotoluene(FID)					*97.2*	*97.3*		*77.0-120*				

Method Blank (MB)

(MB) R3356663-3 11/02/18 20:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3356663-3 11/02/18 20:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*101*			*80.0-120*
(S) Dibromofluoromethane	*102*			*75.0-120*
(S) 4-Bromofluorobenzene	*86.5*			*77.0-126*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356663-1 11/02/18 19:06 • (LCSD) R3356663-2 11/02/18 19:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	138	134	110	107	19.0-160			2.45	27
Acrolein	125	136	145	109	116	10.0-160			6.24	26
Acrylonitrile	125	128	130	102	104	55.0-149			1.80	20
Benzene	25.0	24.2	24.8	96.9	99.3	70.0-123			2.37	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356663-1 11/02/18 19:06 • (LCSD) R3356663-2 11/02/18 19:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	25.0	20.6	21.1	82.3	84.5	73.0-121			2.59	20
Bromodichloromethane	25.0	23.8	25.0	95.1	99.9	75.0-120			4.89	20
Bromoform	25.0	21.9	22.3	87.5	89.0	68.0-132			1.80	20
Bromomethane	25.0	28.7	28.7	115	115	10.0-160			0.0228	25
n-Butylbenzene	25.0	24.1	24.5	96.6	97.9	73.0-125			1.35	20
sec-Butylbenzene	25.0	24.6	25.3	98.4	101	75.0-125			2.99	20
tert-Butylbenzene	25.0	23.6	24.2	94.5	96.7	76.0-124			2.34	20
Carbon tetrachloride	25.0	24.4	25.8	97.6	103	68.0-126			5.61	20
Chlorobenzene	25.0	24.2	24.1	96.7	96.5	80.0-121			0.255	20
Chlorodibromomethane	25.0	24.2	24.2	96.7	96.8	77.0-125			0.107	20
Chloroethane	25.0	27.6	28.2	110	113	47.0-150			2.01	20
Chloroform	25.0	24.0	24.4	96.2	97.4	73.0-120			1.32	20
Chloromethane	25.0	25.9	26.0	103	104	41.0-142			0.377	20
2-Chlorotoluene	25.0	22.7	23.9	90.8	95.5	76.0-123			5.02	20
4-Chlorotoluene	25.0	23.2	24.2	92.8	96.9	75.0-122			4.30	20
1,2-Dibromo-3-Chloropropane	25.0	20.3	20.8	81.1	83.1	58.0-134			2.45	20
1,2-Dibromoethane	25.0	23.9	23.7	95.6	95.0	80.0-122			0.600	20
Dibromomethane	25.0	26.6	26.0	106	104	80.0-120			2.11	20
1,2-Dichlorobenzene	25.0	24.9	24.8	99.6	99.3	79.0-121			0.276	20
1,3-Dichlorobenzene	25.0	24.7	24.8	98.8	99.3	79.0-120			0.558	20
1,4-Dichlorobenzene	25.0	23.6	24.2	94.3	96.8	79.0-120			2.55	20
Dichlorodifluoromethane	25.0	29.4	30.7	117	123	51.0-149			4.34	20
1,1-Dichloroethane	25.0	25.3	26.0	101	104	70.0-126			2.86	20
1,2-Dichloroethane	25.0	27.1	27.8	108	111	70.0-128			2.63	20
1,1-Dichloroethene	25.0	23.9	24.5	95.4	98.1	71.0-124			2.79	20
cis-1,2-Dichloroethene	25.0	24.2	25.0	96.6	100	73.0-120			3.52	20
trans-1,2-Dichloroethene	25.0	24.8	25.4	99.1	102	73.0-120			2.64	20
1,2-Dichloropropane	25.0	27.0	27.6	108	110	77.0-125			2.11	20
1,1-Dichloropropene	25.0	24.6	25.8	98.5	103	74.0-126			4.80	20
1,3-Dichloropropane	25.0	23.8	23.8	95.1	95.2	80.0-120			0.125	20
cis-1,3-Dichloropropene	25.0	24.0	23.4	96.1	93.7	80.0-123			2.45	20
trans-1,3-Dichloropropene	25.0	25.1	23.7	101	94.7	78.0-124			6.06	20
2,2-Dichloropropane	25.0	23.1	23.6	92.3	94.3	58.0-130			2.17	20
Di-isopropyl ether	25.0	26.1	26.6	104	106	58.0-138			2.11	20
Ethylbenzene	25.0	23.3	23.2	93.2	92.8	79.0-123			0.460	20
Hexachloro-1,3-butadiene	25.0	18.7	21.0	74.9	84.2	54.0-138			11.7	20
Isopropylbenzene	25.0	23.3	23.6	93.2	94.3	76.0-127			1.23	20
p-Isopropyltoluene	25.0	24.0	24.6	95.9	98.5	76.0-125			2.71	20
2-Butanone (MEK)	125	121	122	96.8	97.6	44.0-160			0.803	20
Methylene Chloride	25.0	24.9	25.0	99.7	100	67.0-120			0.475	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356663-1 11/02/18 19:06 • (LCSD) R3356663-2 11/02/18 19:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	125	122	120	97.4	95.7	68.0-142			1.82	20
Methyl tert-butyl ether	25.0	26.6	26.5	106	106	68.0-125			0.580	20
Naphthalene	25.0	16.0	17.7	63.9	70.9	54.0-135			10.4	20
n-Propylbenzene	25.0	21.9	23.0	87.7	92.0	77.0-124			4.71	20
Styrene	25.0	21.8	22.3	87.3	89.2	73.0-130			2.13	20
1,1,1,2-Tetrachloroethane	25.0	23.7	23.3	95.0	93.2	75.0-125			1.94	20
1,1,2,2-Tetrachloroethane	25.0	21.4	22.0	85.5	87.9	65.0-130			2.77	20
Tetrachloroethene	25.0	23.8	24.7	95.2	98.7	72.0-132			3.60	20
Toluene	25.0	23.5	23.9	93.9	95.6	79.0-120			1.74	20
1,1,2-Trichlorotrifluoroethane	25.0	25.4	26.1	102	104	69.0-132			2.67	20
1,2,3-Trichlorobenzene	25.0	17.4	19.2	69.7	76.9	50.0-138			9.89	20
1,2,4-Trichlorobenzene	25.0	21.4	21.5	85.6	85.8	57.0-137			0.213	20
1,1,1-Trichloroethane	25.0	25.7	26.2	103	105	73.0-124			1.79	20
1,1,2-Trichloroethane	25.0	22.7	22.5	90.9	89.8	80.0-120			1.26	20
Trichloroethene	25.0	25.1	24.8	100	99.2	78.0-124			1.14	20
Trichlorofluoromethane	25.0	23.6	25.2	94.3	101	59.0-147			6.70	20
1,2,3-Trichloropropane	25.0	22.3	22.0	89.2	88.1	73.0-130			1.26	20
1,2,3-Trimethylbenzene	25.0	25.2	25.4	101	102	77.0-120			0.686	20
1,2,4-Trimethylbenzene	25.0	24.0	24.6	95.9	98.3	76.0-121			2.48	20
1,3,5-Trimethylbenzene	25.0	22.2	23.5	88.7	94.0	76.0-122			5.79	20
Vinyl chloride	25.0	25.5	26.5	102	106	67.0-131			3.81	20
Xylenes, Total	75.0	72.6	71.9	96.8	95.9	79.0-123			0.969	20
(S) Toluene-d8				*99.2*	*96.9*	*80.0-120*				
(S) Dibromofluoromethane				*101*	*102*	*75.0-120*				
(S) 4-Bromofluorobenzene				*87.0*	*87.9*	*77.0-126*				

Method Blank (MB)

(MB) R3357781-2 11/03/18 12:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3357781-2 11/03/18 12:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0210	J	0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) Dibromofluoromethane	*99.6*			*65.0-129*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*

Laboratory Control Sample (LCS)

(LCS) R3357781-1 11/03/18 11:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.747	120	10.0-160	
Acrylonitrile	0.625	0.640	102	45.0-153	
Benzene	0.125	0.123	98.6	70.0-123	
Bromobenzene	0.125	0.118	94.5	73.0-121	
Bromodichloromethane	0.125	0.0994	79.5	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3357781-1 11/03/18 11:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.116	93.2	64.0-132	
Bromomethane	0.125	0.107	85.9	56.0-147	
n-Butylbenzene	0.125	0.123	98.5	68.0-135	
sec-Butylbenzene	0.125	0.123	98.3	74.0-130	
tert-Butylbenzene	0.125	0.123	98.2	75.0-127	
Carbon tetrachloride	0.125	0.137	110	66.0-128	
Chlorobenzene	0.125	0.128	102	76.0-128	
Chlorodibromomethane	0.125	0.118	94.1	74.0-127	
Chloroethane	0.125	0.115	92.2	61.0-134	
Chloroform	0.125	0.129	103	72.0-123	
Chloromethane	0.125	0.127	102	51.0-138	
2-Chlorotoluene	0.125	0.137	110	75.0-124	
4-Chlorotoluene	0.125	0.123	98.1	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.123	98.6	59.0-130	
1,2-Dibromoethane	0.125	0.119	95.5	74.0-128	
Dibromomethane	0.125	0.126	101	75.0-122	
1,2-Dichlorobenzene	0.125	0.126	100	76.0-124	
1,3-Dichlorobenzene	0.125	0.121	96.6	76.0-125	
1,4-Dichlorobenzene	0.125	0.112	89.6	77.0-121	
Dichlorodifluoromethane	0.125	0.113	90.3	43.0-156	
1,1-Dichloroethane	0.125	0.124	99.1	70.0-127	
1,2-Dichloroethane	0.125	0.123	98.2	65.0-131	
1,1-Dichloroethene	0.125	0.133	106	65.0-131	
cis-1,2-Dichloroethene	0.125	0.131	105	73.0-125	
trans-1,2-Dichloroethene	0.125	0.123	98.2	71.0-125	
1,2-Dichloropropane	0.125	0.125	100	74.0-125	
1,1-Dichloropropene	0.125	0.126	101	73.0-125	
1,3-Dichloropropane	0.125	0.122	97.9	80.0-125	
cis-1,3-Dichloropropene	0.125	0.118	94.7	76.0-127	
trans-1,3-Dichloropropene	0.125	0.126	101	73.0-127	
2,2-Dichloropropane	0.125	0.197	158	59.0-135	J4
Di-isopropyl ether	0.125	0.126	101	60.0-136	
Ethylbenzene	0.125	0.127	102	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.127	102	57.0-150	
Isopropylbenzene	0.125	0.127	101	72.0-127	
p-Isopropyltoluene	0.125	0.129	104	72.0-133	
2-Butanone (MEK)	0.625	0.670	107	30.0-160	
Methylene Chloride	0.125	0.129	103	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.751	120	56.0-143	
Methyl tert-butyl ether	0.125	0.131	105	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3357781-1 11/03/18 11:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.123	98.5	59.0-130	
n-Propylbenzene	0.125	0.125	99.8	74.0-126	
Styrene	0.125	0.122	97.2	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.127	102	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.133	107	68.0-128	
Tetrachloroethene	0.125	0.131	105	70.0-136	
Toluene	0.125	0.120	96.3	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.127	102	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.100	80.1	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.110	88.0	62.0-137	
1,1,1-Trichloroethane	0.125	0.148	118	69.0-126	
1,1,2-Trichloroethane	0.125	0.114	91.1	78.0-123	
Trichloroethene	0.125	0.120	95.7	76.0-126	
Trichlorofluoromethane	0.125	0.137	110	61.0-142	
1,2,3-Trichloropropane	0.125	0.138	110	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.121	97.1	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.120	95.8	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.124	98.9	73.0-127	
Vinyl chloride	0.125	0.115	91.9	63.0-134	
Xylenes, Total	0.375	0.380	101	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) Dibromofluoromethane			*107*	*65.0-129*	
(S) 4-Bromofluorobenzene			*105*	*67.0-138*	

L1040268-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040268-01 11/03/18 17:02 • (MS) R3357781-3 11/03/18 13:49 • (MSD) R3357781-4 11/03/18 14:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.829	U	1.77	3.10	53.3	93.3	4	10.0-160		J3	54.5	40
Acrylonitrile	0.829	U	2.10	2.80	63.4	84.3	4	10.0-160			28.4	40
Benzene	0.166	U	0.461	0.476	69.6	71.7	4	10.0-149			3.05	37
Bromobenzene	0.166	U	0.493	0.464	74.3	70.0	4	10.0-156			5.98	38
Bromodichloromethane	0.166	U	0.443	0.460	66.8	69.3	4	10.0-143			3.67	37
Bromoform	0.166	U	0.510	0.490	76.9	73.8	4	10.0-146			4.09	36
Bromomethane	0.166	U	0.250	0.288	37.7	43.4	4	10.0-149			13.9	38
n-Butylbenzene	0.166	U	0.594	0.474	89.6	71.4	4	10.0-160			22.6	40
sec-Butylbenzene	0.166	U	0.551	0.460	83.0	69.3	4	10.0-159			18.0	39
tert-Butylbenzene	0.166	U	0.538	0.477	81.2	72.0	4	10.0-156			12.0	39

L1040268-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040268-01 11/03/18 17:02 • (MS) R3357781-3 11/03/18 13:49 • (MSD) R3357781-4 11/03/18 14:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.166	U	0.525	0.547	79.2	82.5	4	10.0-145			4.02	37
Chlorobenzene	0.166	U	0.517	0.527	77.9	79.5	4	10.0-152			1.94	39
Chlorodibromomethane	0.166	U	0.516	0.522	77.8	78.7	4	10.0-146			1.17	37
Chloroethane	0.166	U	0.268	0.249	40.4	37.5	4	10.0-146			7.44	40
Chloroform	0.166	U	0.501	0.536	75.6	80.9	4	10.0-146			6.73	37
Chloromethane	0.166	U	0.387	0.416	58.4	62.8	4	10.0-159			7.30	37
2-Chlorotoluene	0.166	U	0.585	0.539	88.1	81.3	4	10.0-159			8.09	38
4-Chlorotoluene	0.166	U	0.529	0.494	79.8	74.5	4	10.0-155			6.89	39
1,2-Dibromo-3-Chloropropane	0.166	U	0.489	0.575	73.7	86.7	4	10.0-151			16.3	39
1,2-Dibromoethane	0.166	U	0.484	0.499	73.0	75.2	4	10.0-148			2.94	34
Dibromomethane	0.166	U	0.503	0.534	75.8	80.5	4	10.0-147			5.96	35
1,2-Dichlorobenzene	0.166	U	0.537	0.545	80.9	82.1	4	10.0-155			1.47	37
1,3-Dichlorobenzene	0.166	U	0.525	0.504	79.2	76.0	4	10.0-153			4.13	38
1,4-Dichlorobenzene	0.166	U	0.494	0.473	74.5	71.4	4	10.0-151			4.37	38
Dichlorodifluoromethane	0.166	U	0.395	0.402	59.5	60.7	4	10.0-160			1.90	35
1,1-Dichloroethane	0.166	U	0.500	0.512	75.4	77.2	4	10.0-147			2.37	37
1,2-Dichloroethane	0.166	U	0.484	0.505	72.9	76.2	4	10.0-148			4.33	35
1,1-Dichloroethene	0.166	U	0.433	0.457	65.2	68.9	4	10.0-155			5.41	37
cis-1,2-Dichloroethene	0.166	U	0.484	0.501	72.9	75.6	4	10.0-149			3.60	37
trans-1,2-Dichloroethene	0.166	U	0.417	0.427	62.9	64.3	4	10.0-150			2.26	37
1,2-Dichloropropane	0.166	U	0.520	0.552	78.4	83.2	4	10.0-148			5.97	37
1,1-Dichloropropene	0.166	U	0.398	0.405	59.9	61.1	4	10.0-153			1.88	35
1,3-Dichloropropane	0.166	U	0.488	0.508	73.6	76.5	4	10.0-154			3.89	35
cis-1,3-Dichloropropene	0.166	U	0.480	0.484	72.4	73.0	4	10.0-151			0.801	37
trans-1,3-Dichloropropene	0.166	U	0.528	0.540	79.5	81.4	4	10.0-148			2.28	37
2,2-Dichloropropane	0.166	U	0.768	0.792	116	119	4	10.0-138			3.02	36
Di-isopropyl ether	0.166	U	0.521	0.556	78.5	83.8	4	10.0-147			6.54	36
Ethylbenzene	0.166	U	0.495	0.490	74.6	73.9	4	10.0-160			0.892	38
Hexachloro-1,3-butadiene	0.166	U	0.784	0.557	118	84.0	4	10.0-160			33.9	40
Isopropylbenzene	0.166	U	0.550	0.488	82.9	73.5	4	10.0-155			12.0	38
p-Isopropyltoluene	0.166	U	0.570	0.472	86.0	71.1	4	10.0-160			18.9	40
2-Butanone (MEK)	0.829	U	3.49	4.08	105	123	4	10.0-160			15.6	40
Methylene Chloride	0.166	U	0.442	0.463	66.6	69.8	4	10.0-141			4.75	37
4-Methyl-2-pentanone (MIBK)	0.829	U	3.14	3.37	94.6	102	4	10.0-160			7.29	35
Methyl tert-butyl ether	0.166	U	0.515	0.589	77.7	88.8	4	11.0-147			13.4	35
Naphthalene	0.166	U	0.540	0.624	81.4	94.0	4	10.0-160			14.4	36
n-Propylbenzene	0.166	U	0.534	0.468	80.5	70.6	4	10.0-158			13.1	38
Styrene	0.166	U	0.540	0.512	81.4	77.1	4	10.0-160			5.41	40
1,1,1,2-Tetrachloroethane	0.166	U	0.526	0.548	79.3	82.6	4	10.0-149			4.04	39

L1040268-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040268-01 11/03/18 17:02 • (MS) R3357781-3 11/03/18 13:49 • (MSD) R3357781-4 11/03/18 14:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	0.166	U	0.547	0.560	82.5	84.4	4	10.0-160			2.31	35
Tetrachloroethene	0.166	U	0.477	0.485	71.9	73.0	4	10.0-156			1.51	39
Toluene	0.166	U	0.464	0.453	70.0	68.3	4	10.0-156			2.38	38
1,1,2-Trichlorotrifluoroethane	0.166	U	0.456	0.451	68.7	68.0	4	10.0-160			1.07	36
1,2,3-Trichlorobenzene	0.166	U	0.478	0.511	72.1	77.1	4	10.0-160			6.73	40
1,2,4-Trichlorobenzene	0.166	U	0.546	0.540	82.3	81.4	4	10.0-160			1.16	40
1,1,1-Trichloroethane	0.166	U	0.562	0.596	84.7	89.9	4	10.0-144			5.93	35
1,1,2-Trichloroethane	0.166	U	0.500	0.494	75.4	74.4	4	10.0-160			1.32	35
Trichloroethene	0.166	U	0.479	0.461	72.3	69.5	4	10.0-156			3.89	38
Trichlorofluoromethane	0.166	U	0.469	0.484	70.7	73.0	4	10.0-160			3.12	40
1,2,3-Trichloropropane	0.166	U	0.566	0.565	85.3	85.1	4	10.0-156			0.200	35
1,2,3-Trimethylbenzene	0.166	U	0.500	0.473	75.4	71.3	4	10.0-160			5.61	36
1,2,4-Trimethylbenzene	0.166	U	0.527	0.484	79.4	72.9	4	10.0-160			8.54	36
1,3,5-Trimethylbenzene	0.166	U	0.547	0.498	82.5	75.1	4	10.0-160			9.34	38
Vinyl chloride	0.166	U	0.348	0.347	52.5	52.4	4	10.0-160			0.280	37
Xylenes, Total	0.498	U	1.53	1.58	76.9	79.3	4	10.0-160			2.99	38
(S) Toluene-d8					*104*	*103*		*75.0-131*				
(S) Dibromofluoromethane					*101*	*104*		*65.0-129*				
(S) 4-Bromofluorobenzene					*105*	*98.8*		*67.0-138*				

Method Blank (MB)

(MB) R3357982-3 11/07/18 09:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3357982-3 11/07/18 09:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0141	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*109*			*75.0-131*
(S) Dibromofluoromethane	*92.0*			*65.0-129*
(S) 4-Bromofluorobenzene	*110*			*67.0-138*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357982-1 11/07/18 08:42 • (LCSD) R3357982-2 11/07/18 09:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.536	0.487	85.8	77.9	10.0-160			9.63	31
Acrylonitrile	0.625	0.536	0.479	85.7	76.6	45.0-153			11.2	22
Benzene	0.125	0.124	0.125	99.1	100	70.0-123			0.975	20
Bromobenzene	0.125	0.119	0.120	95.6	95.8	73.0-121			0.216	20
Bromodichloromethane	0.125	0.103	0.101	82.5	80.5	73.0-121			2.45	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357982-1 11/07/18 08:42 • (LCSD) R3357982-2 11/07/18 09:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.121	0.120	97.1	96.4	64.0-132			0.730	20
Bromomethane	0.125	0.111	0.116	88.8	92.6	56.0-147			4.19	20
n-Butylbenzene	0.125	0.127	0.129	102	103	68.0-135			1.69	20
sec-Butylbenzene	0.125	0.131	0.127	105	102	74.0-130			3.29	20
tert-Butylbenzene	0.125	0.132	0.131	106	105	75.0-127			1.07	20
Carbon tetrachloride	0.125	0.142	0.147	114	117	66.0-128			2.97	20
Chlorobenzene	0.125	0.127	0.129	102	104	76.0-128			1.56	20
Chlorodibromomethane	0.125	0.130	0.127	104	102	74.0-127			2.48	20
Chloroethane	0.125	0.111	0.120	88.9	95.6	61.0-134			7.28	20
Chloroform	0.125	0.125	0.126	99.9	101	72.0-123			0.734	20
Chloromethane	0.125	0.142	0.143	114	115	51.0-138			0.798	20
2-Chlorotoluene	0.125	0.142	0.149	114	119	75.0-124			4.27	20
4-Chlorotoluene	0.125	0.132	0.134	106	107	75.0-124			1.09	20
1,2-Dibromo-3-Chloropropane	0.125	0.102	0.115	81.8	92.0	59.0-130			11.7	20
1,2-Dibromoethane	0.125	0.126	0.124	101	99.5	74.0-128			1.29	20
Dibromomethane	0.125	0.132	0.128	106	103	75.0-122			2.79	20
1,2-Dichlorobenzene	0.125	0.127	0.129	101	103	76.0-124			1.67	20
1,3-Dichlorobenzene	0.125	0.129	0.123	103	98.4	76.0-125			4.37	20
1,4-Dichlorobenzene	0.125	0.121	0.119	96.8	95.2	77.0-121			1.67	20
Dichlorodifluoromethane	0.125	0.135	0.134	108	107	43.0-156			1.23	20
1,1-Dichloroethane	0.125	0.123	0.125	98.8	99.8	70.0-127			0.983	20
1,2-Dichloroethane	0.125	0.131	0.128	104	102	65.0-131			1.91	20
1,1-Dichloroethene	0.125	0.136	0.141	109	113	65.0-131			3.64	20
cis-1,2-Dichloroethene	0.125	0.126	0.125	100	99.9	73.0-125			0.535	20
trans-1,2-Dichloroethene	0.125	0.123	0.124	98.5	98.8	71.0-125			0.375	20
1,2-Dichloropropane	0.125	0.129	0.119	103	95.5	74.0-125			7.88	20
1,1-Dichloropropene	0.125	0.127	0.129	102	103	73.0-125			1.23	20
1,3-Dichloropropane	0.125	0.126	0.123	100	98.1	80.0-125			2.33	20
cis-1,3-Dichloropropene	0.125	0.124	0.126	98.8	101	76.0-127			1.86	20
trans-1,3-Dichloropropene	0.125	0.134	0.122	108	97.4	73.0-127			9.91	20
2,2-Dichloropropane	0.125	0.197	0.193	158	154	59.0-135	J4	J4	2.31	20
Di-isopropyl ether	0.125	0.125	0.128	99.8	102	60.0-136			2.31	20
Ethylbenzene	0.125	0.128	0.128	102	102	74.0-126			0.371	20
Hexachloro-1,3-butadiene	0.125	0.121	0.127	96.5	102	57.0-150			5.43	20
Isopropylbenzene	0.125	0.136	0.136	109	109	72.0-127			0.272	20
p-Isopropyltoluene	0.125	0.138	0.140	110	112	72.0-133			1.25	20
2-Butanone (MEK)	0.625	0.637	0.622	102	99.5	30.0-160			2.47	24
Methylene Chloride	0.125	0.127	0.132	102	106	68.0-123			3.84	20
4-Methyl-2-pentanone (MIBK)	0.625	0.764	0.755	122	121	56.0-143			1.23	20
Methyl tert-butyl ether	0.125	0.125	0.125	100	100	66.0-132			0.148	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357982-1 11/07/18 08:42 • (LCSD) R3357982-2 11/07/18 09:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.113	0.114	90.7	91.5	59.0-130			0.900	20
n-Propylbenzene	0.125	0.134	0.133	107	107	74.0-126			0.674	20
Styrene	0.125	0.131	0.133	105	106	72.0-127			1.25	20
1,1,1,2-Tetrachloroethane	0.125	0.128	0.124	102	99.5	74.0-129			2.84	20
1,1,2,2-Tetrachloroethane	0.125	0.132	0.129	106	104	68.0-128			2.17	20
Tetrachloroethene	0.125	0.143	0.140	114	112	70.0-136			1.94	20
Toluene	0.125	0.126	0.127	101	102	75.0-121			0.697	20
1,1,2-Trichlorotrifluoroethane	0.125	0.128	0.130	102	104	61.0-139			1.65	20
1,2,3-Trichlorobenzene	0.125	0.0946	0.103	75.7	82.4	59.0-139			8.42	20
1,2,4-Trichlorobenzene	0.125	0.110	0.112	87.7	89.3	62.0-137			1.81	20
1,1,1-Trichloroethane	0.125	0.148	0.149	119	119	69.0-126			0.395	20
1,1,2-Trichloroethane	0.125	0.118	0.118	94.4	94.0	78.0-123			0.380	20
Trichloroethene	0.125	0.121	0.126	97.2	100	76.0-126			3.31	20
Trichlorofluoromethane	0.125	0.138	0.141	110	113	61.0-142			2.47	20
1,2,3-Trichloropropane	0.125	0.142	0.133	113	107	67.0-129			6.04	20
1,2,3-Trimethylbenzene	0.125	0.133	0.131	106	105	74.0-124			1.11	20
1,2,4-Trimethylbenzene	0.125	0.128	0.128	102	103	70.0-126			0.390	20
1,3,5-Trimethylbenzene	0.125	0.133	0.137	106	110	73.0-127			3.13	20
Vinyl chloride	0.125	0.109	0.114	86.8	91.1	63.0-134			4.80	20
Xylenes, Total	0.375	0.395	0.387	105	103	72.0-127			2.05	20
(S) Toluene-d8				*105*	*106*	*75.0-131*				
(S) Dibromofluoromethane				*99.7*	*100*	*65.0-129*				
(S) 4-Bromofluorobenzene				*106*	*107*	*67.0-138*				

Method Blank (MB)

(MB) R3356847-1 11/05/18 03:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		2.00	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*88.7*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356847-2 11/05/18 03:47 • (LCSD) R3356847-3 11/05/18 04:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	25.0	20.3	21.0	81.2	84.0	50.0-150			3.39	20
C12-C22 Hydrocarbons	25.0	21.4	22.3	85.6	89.2	50.0-150			4.12	20
(S) o-Terphenyl				*89.6*	*93.5*	*18.0-148*				

L1040102-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040102-01 11/05/18 07:37 • (MS) R3356847-4 11/05/18 07:54 • (MSD) R3356847-5 11/05/18 08:08

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	27.8		70.2	82.6	72.4	122	1	50.0-150			16.2	20
C12-C22 Hydrocarbons	27.8		61.2	64.2	113	125	1	50.0-150			4.78	20
(S) o-Terphenyl					*79.9*	*78.8*		*18.0-148*				

Method Blank (MB)

(MB) R3357473-1 11/05/18 17:24

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Azinphos-Methyl	U		0.348	1.00
Bolstar (Sulprofos)	U		0.205	1.00
Chlorpyrifos	U		0.245	1.00
Coumaphos	U		0.277	1.00
Demeton,-O and -S	U		0.341	2.00
Diazinon	U		0.377	1.00
Dichlorvos	U		0.212	2.00
Dimethoate	U		0.105	1.00
Disulfoton	U		0.277	1.00
EPN	U		0.261	1.00
Ethoprop	U		0.354	1.00
Ethyl Parathion	U		0.292	1.00
Fensulfothion	U		0.130	1.00
Fenthion	U		0.266	1.00
Malathion	U		0.173	1.00
Merphos	U		0.267	2.00
Methyl parathion	U		0.257	1.00
Mevinphos	U		0.118	1.00
Naled	U		0.289	1.00
Phorate	U		0.282	1.00
Ronnel	U		0.252	1.00
Stirophos	U		0.226	1.00
Sulfotep	U		0.202	1.00
TEPP	U		9.74	20.0
Tokuthion (Prothothiofos)	U		0.254	1.00
Trichloronate	U		0.213	1.00
(S) Triphenyl Phosphate	*98.6*			*42.0-129*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357473-2 11/05/18 18:27 • (LCSD) R3357473-3 11/05/18 18:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Azinphos-Methyl	5.00	5.02	4.72	100	94.4	43.0-142			6.16	20
Bolstar (Sulprofos)	5.00	4.98	4.59	99.6	91.8	47.0-128			8.15	20
Chlorpyrifos	5.00	5.40	4.96	108	99.2	50.0-126			8.49	20
Coumaphos	5.00	5.09	4.61	102	92.2	37.0-137			9.90	20
Demeton,-O and -S	2.50	2.27	2.06	90.8	82.4	22.0-150			9.70	24
Diazinon	5.00	4.99	4.69	99.8	93.8	54.0-130			6.20	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357473-2 11/05/18 18:27 • (LCSD) R3357473-3 11/05/18 18:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dichlorvos	5.00	4.87	4.54	97.4	90.8	43.0-135			7.01	24
Dimethoate	5.00	3.01	3.33	60.2	66.6	27.0-120			10.1	27
Disulfoton	5.00	4.83	4.31	96.6	86.2	44.0-136			11.4	21
EPN	5.00	4.99	4.57	99.8	91.4	31.0-143			8.79	21
Ethoprop	5.00	5.18	4.82	104	96.4	52.0-130			7.20	20
Ethyl Parathion	5.00	5.20	4.79	104	95.8	42.0-134			8.21	20
Fensulfothion	5.00	3.86	4.07	77.2	81.4	42.0-137			5.30	20
Fenthion	5.00	5.37	4.98	107	99.6	53.0-133			7.54	20
Malathion	5.00	5.10	4.70	102	94.0	47.0-121			8.16	20
Merphos	5.00	4.19	3.81	83.8	76.2	14.0-123			9.50	25
Methyl parathion	5.00	5.07	4.83	101	96.6	43.0-135			4.85	20
Mevinphos	5.00	4.69	4.58	93.8	91.6	49.0-123			2.37	23
Naled	5.00	4.46	4.26	89.2	85.2	25.0-126			4.59	26
Phorate	5.00	4.81	4.44	96.2	88.8	44.0-129			8.00	20
Ronnel	5.00	5.03	4.60	101	92.0	51.0-125			8.93	20
Stirophos	5.00	5.02	4.69	100	93.8	53.0-125			6.80	20
Sulfotep	5.00	5.83	5.43	117	109	40.0-140			7.10	22
TEPP	50.0	ND	20.3	0.000	40.6	18.0-122	J4	J3	200	32
Tokuthion (Prothothiofos)	5.00	5.24	4.77	105	95.4	50.0-128			9.39	20
Trichloronate	5.00	5.06	4.65	101	93.0	47.0-130			8.44	21
(S) Triphenyl Phosphate				*94.4*	*94.2*	*42.0-129*				

L1039987-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1039987-05 11/05/18 22:40 • (MS) R3357473-4 11/05/18 23:12 • (MSD) R3357473-5 11/05/18 23:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Azinphos-Methyl	5.00	U	4.87	4.74	97.4	94.8	1	29.0-157			2.71	20
Bolstar (Sulprofos)	5.00	U	4.66	4.67	93.2	93.4	1	37.0-138			0.214	20
Chlorpyrifos	5.00	U	5.07	5.04	101	101	1	42.0-131			0.593	20
Coumaphos	5.00	U	4.83	4.67	96.6	93.4	1	31.0-150			3.37	20
Demeton,-O and -S	2.50	U	1.97	2.13	78.8	85.2	1	30.0-152			7.80	20
Diazinon	5.00	U	4.77	4.80	95.4	96.0	1	47.0-134			0.627	20
Dichlorvos	5.00	U	4.71	4.64	94.2	92.8	1	39.0-140			1.50	22
Dimethoate	5.00	U	3.22	3.23	64.4	64.6	1	17.0-129			0.310	20
Disulfoton	5.00	U	4.21	4.51	84.2	90.2	1	42.0-131			6.88	21
EPN	5.00	U	4.83	4.67	96.6	93.4	1	17.0-155			3.37	20
Ethoprop	5.00	U	5.04	4.95	101	99.0	1	46.0-133			1.80	20
Ethyl Parathion	5.00	U	5.03	4.89	101	97.8	1	30.0-138			2.82	20

L1039987-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1039987-05 11/05/18 22:40 • (MS) R3357473-4 11/05/18 23:12 • (MSD) R3357473-5 11/05/18 23:44

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fensulfothion	5.00	U	4.13	4.09	82.6	81.8	1	36.0-145			0.973	20
Fenthion	5.00	U	5.10	4.99	102	99.8	1	46.0-140			2.18	20
Malathion	5.00	U	4.88	4.82	97.6	96.4	1	39.0-126			1.24	20
Merphos	5.00	U	4.08	3.96	81.6	79.2	1	10.0-120			2.99	27
Methyl parathion	5.00	U	4.97	4.84	99.4	96.8	1	28.0-142			2.65	20
Mevinphos	5.00	U	4.58	4.58	91.6	91.6	1	38.0-134			0.000	20
Naled	5.00	U	4.32	4.23	86.4	84.6	1	14.0-130			2.11	20
Phorate	5.00	U	4.64	4.51	92.8	90.2	1	38.0-134			2.84	20
Ronnel	5.00	U	4.79	4.74	95.8	94.8	1	42.0-131			1.05	20
Stirophos	5.00	U	4.79	4.79	95.8	95.8	1	33.0-143			0.000	20
Sulfotep	5.00	U	5.55	5.47	111	109	1	34.0-143			1.45	20
TEPP	50.0	U	20.9	28.8	41.8	57.6	1	38.0-120		J3	31.8	25
Tokuthion (Prothothiofos)	5.00	U	4.93	4.82	98.6	96.4	1	35.0-140			2.26	24
Trichloronate	5.00	U	4.77	4.74	95.4	94.8	1	41.0-133			0.631	20
(S) Triphenyl Phosphate					*97.2*	*95.0*		*42.0-129*				

Method Blank (MB)

(MB) R3358281-3 11/08/18 10:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*96.8*			*10.0-135*
(S) Tetrachloro-m-xylene	*91.6*			*10.0-139*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3358281-1 11/08/18 10:32 • (LCSD) R3358281-2 11/08/18 10:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	0.0530	0.0615	79.6	92.3	34.0-136			14.8	38
Alpha BHC	0.0666	0.0541	0.0634	81.2	95.2	34.0-139			15.8	38
Beta BHC	0.0666	0.0550	0.0637	82.6	95.6	34.0-133			14.7	37
Delta BHC	0.0666	0.0520	0.0611	78.1	91.7	34.0-135			16.1	38
Gamma BHC	0.0666	0.0535	0.0624	80.3	93.7	34.0-136			15.4	38
4,4-DDD	0.0666	0.0541	0.0626	81.2	94.0	33.0-141			14.6	39
4,4-DDE	0.0666	0.0520	0.0605	78.1	90.8	34.0-134			15.1	38
4,4-DDT	0.0666	0.0594	0.0691	89.2	104	30.0-143			15.1	40
Dieldrin	0.0666	0.0530	0.0619	79.6	92.9	35.0-137			15.5	37
Endosulfan I	0.0666	0.0526	0.0606	79.0	91.0	34.0-134			14.1	37

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3358281-1 11/08/18 10:32 • (LCSD) R3358281-2 11/08/18 10:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0666	0.0500	0.0574	75.1	86.2	35.0-132			13.8	38
Endosulfan sulfate	0.0666	0.0566	0.0652	85.0	97.9	35.0-132			14.1	37
Endrin	0.0666	0.0614	0.0710	92.2	107	34.0-137			14.5	37
Endrin aldehyde	0.0666	0.0566	0.0655	85.0	98.3	23.0-121			14.6	39
Endrin ketone	0.0666	0.0549	0.0637	82.4	95.6	35.0-144			14.8	37
Heptachlor	0.0666	0.0639	0.0752	95.9	113	36.0-141			16.2	37
Heptachlor epoxide	0.0666	0.0541	0.0623	81.2	93.5	36.0-134			14.1	37
Hexachlorobenzene	0.0666	0.0524	0.0615	78.7	92.3	33.0-129			16.0	37
Methoxychlor	0.0666	0.0598	0.0686	89.8	103	28.0-150			13.7	38
(S) Decachlorobiphenyl				*83.9*	*93.4*	*10.0-135*				
(S) Tetrachloro-m-xylene				*79.4*	*88.4*	*10.0-139*				

L1040274-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040274-06 11/08/18 13:52 • (MS) R3358281-4 11/08/18 14:05 • (MSD) R3358281-5 11/08/18 14:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0668	ND	0.0397	0.0413	59.6	62.0	1	20.0-135			3.95	37
Alpha BHC	0.0668	ND	0.0419	0.0431	62.9	64.7	1	27.0-140			2.82	35
Beta BHC	0.0668	ND	0.0482	0.0482	72.4	72.4	1	23.0-141			0.000	37
Delta BHC	0.0668	ND	0.0409	0.0421	61.4	63.2	1	21.0-138			2.89	35
Gamma BHC	0.0668	ND	0.0386	0.0397	58.0	59.6	1	27.0-137			2.81	36
4,4-DDD	0.0668	ND	0.0531	0.0545	79.7	81.8	1	15.0-152			2.60	39
4,4-DDE	0.0668	ND	0.0547	0.0562	82.1	84.4	1	10.0-152			2.71	40
4,4-DDT	0.0668		0.0579	0.0565	86.9	84.8	1	10.0-151		P	2.45	40
Dieldrin	0.0668	ND	0.0500	0.0522	75.1	78.4	1	17.0-145			4.31	37
Endosulfan I	0.0668	ND	0.0432	0.0453	64.9	68.0	1	20.0-137			4.75	36
Endosulfan II	0.0668	ND	0.0747	0.0761	112	114	1	15.0-141	P	P	1.86	37
Endosulfan sulfate	0.0668	ND	0.0466	0.0499	70.0	74.9	1	15.0-143			6.84	38
Endrin	0.0668	ND	0.0504	0.0518	75.7	77.8	1	19.0-143	P	P	2.74	37
Endrin aldehyde	0.0668	ND	0.0510	0.0534	76.6	80.2	1	10.0-139			4.60	40
Endrin ketone	0.0668	ND	0.0498	0.0530	74.8	79.6	1	17.0-149			6.23	38
Heptachlor	0.0668	ND	0.0577	0.0597	86.6	89.6	1	22.0-138			3.41	37
Heptachlor epoxide	0.0668	ND	0.0430	0.0444	64.6	66.7	1	22.0-138			3.20	36
Hexachlorobenzene	0.0668	ND	0.0395	0.0414	59.3	62.2	1	25.0-126			4.70	35
Methoxychlor	0.0668		0.0471	0.0532	70.7	79.9	1	10.0-159			12.2	40
(S) Decachlorobiphenyl					*63.7*	*58.1*		*10.0-135*				
(S) Tetrachloro-m-xylene					*61.6*	*57.1*		*10.0-139*				

Method Blank (MB)

(MB) R3358800-1 11/09/18 18:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*112*		*10.0-135*	
(S) Tetrachloro-m-xylene	*86.8*		*10.0-139*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3358800-2 11/09/18 19:05 • (LCSD) R3358800-3 11/09/18 19:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.186	0.183	111	110	37.0-145	P	P	1.63	37
PCB 1016	0.167	0.163	0.169	97.6	101	36.0-141			3.61	35
(S) Decachlorobiphenyl				*118*	*117*	*10.0-135*				
(S) Tetrachloro-m-xylene				*87.8*	*89.9*	*10.0-139*				

Method Blank (MB)

(MB) R3357626-3 11/06/18 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acenaphthene	U		0.316	1.00
Acenaphthylene	U		0.309	1.00
Anthracene	U		0.291	1.00
Benzidine	U		4.32	10.0
Benzo(a)anthracene	U		0.0975	1.00
Benzo(b)fluoranthene	U		0.0896	1.00
Benzo(k)fluoranthene	U		0.355	1.00
Benzo(g,h,i)perylene	U		0.161	1.00
Benzo(a)pyrene	U		0.340	1.00
Bis(2-chlorethoxy)methane	U		0.329	10.0
Bis(2-chloroethyl)ether	U		1.62	10.0
Bis(2-chloroisopropyl)ether	U		0.445	10.0
4-Bromophenyl-phenylether	U		0.335	10.0
2-Chloronaphthalene	U		0.330	1.00
4-Chlorophenyl-phenylether	U		0.303	10.0
Chrysene	U		0.332	1.00
Dibenz(a,h)anthracene	U		0.279	1.00
3,3-Dichlorobenzidine	U		2.02	10.0
2,4-Dinitrotoluene	U		1.65	10.0
2,6-Dinitrotoluene	U		0.279	10.0
Fluoranthene	U		0.310	1.00
Fluorene	U		0.323	1.00
Hexachlorobenzene	U		0.341	1.00
Hexachloro-1,3-butadiene	U		0.329	10.0
Hexachlorocyclopentadiene	U		2.33	10.0
Hexachloroethane	U		0.365	10.0
Indeno(1,2,3-cd)pyrene	U		0.279	1.00
Isophorone	U		0.272	10.0
Naphthalene	U		0.372	1.00
Nitrobenzene	U		0.367	10.0
n-Nitrosodimethylamine	U		1.26	10.0
n-Nitrosodiphenylamine	U		1.19	10.0
n-Nitrosodi-n-propylamine	U		0.403	10.0
Phenanthrene	U		0.366	1.00
Benzylbutyl phthalate	U		0.275	3.00
Bis(2-ethylhexyl)phthalate	U		0.709	3.00
Di-n-butyl phthalate	U		0.266	3.00
Diethyl phthalate	U		0.282	3.00
Dimethyl phthalate	U		0.283	3.00
Di-n-octyl phthalate	U		0.278	3.00

Method Blank (MB)

(MB) R3357626-3 11/06/18 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pyrene	U		0.330	1.00
1,2,4-Trichlorobenzene	U		0.355	10.0
4-Chloro-3-methylphenol	U		0.263	10.0
2-Chlorophenol	U		0.283	10.0
2-Nitrophenol	U		0.320	10.0
4-Nitrophenol	U		2.01	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		0.334	10.0
2,4,6-Trichlorophenol	U		0.297	10.0
2,4-Dichlorophenol	U		0.284	10.0
2,4-Dimethylphenol	U		0.624	10.0
4,6-Dinitro-2-methylphenol	U		2.62	10.0
2,4-Dinitrophenol	U		3.25	10.0
(S) Nitrobenzene-d5	*54.1*			*10.0-127*
(S) 2-Fluorobiphenyl	*61.0*			*10.0-130*
(S) p-Terphenyl-d14	*63.9*			*10.0-128*
(S) Phenol-d5	*18.9*			*10.0-120*
(S) 2-Fluorophenol	*34.9*			*10.0-120*
(S) 2,4,6-Tribromophenol	*49.4*			*10.0-155*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357626-1 11/06/18 12:55 • (LCSD) R3357626-2 11/06/18 13:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	50.0	37.1	37.5	74.2	75.0	41.0-120			1.07	22
Acenaphthylene	50.0	37.1	37.0	74.2	74.0	43.0-120			0.270	22
Anthracene	50.0	37.2	37.7	74.4	75.4	45.0-120			1.34	20
Benzidine	50.0	4.35	ND	8.70	0.000	1.00-120		J3 J4	200	36
Benzo(a)anthracene	50.0	36.1	36.3	72.2	72.6	47.0-120			0.552	20
Benzo(b)fluoranthene	50.0	37.5	37.4	75.0	74.8	46.0-120			0.267	20
Benzo(k)fluoranthene	50.0	39.5	40.2	79.0	80.4	46.0-120			1.76	21
Benzo(g,h,i)perylene	50.0	40.5	40.8	81.0	81.6	48.0-121			0.738	20
Benzo(a)pyrene	50.0	36.9	37.0	73.8	74.0	47.0-120			0.271	20
Bis(2-chlorethoxy)methane	50.0	31.8	31.5	63.6	63.0	33.0-120			0.948	24
Bis(2-chloroethyl)ether	50.0	34.9	34.4	69.8	68.8	23.0-120			1.44	33
Bis(2-chloroisopropyl)ether	50.0	34.7	34.2	69.4	68.4	28.0-120			1.45	31
4-Bromophenyl-phenylether	50.0	40.4	40.2	80.8	80.4	45.0-120			0.496	20
2-Chloronaphthalene	50.0	35.1	35.0	70.2	70.0	37.0-120			0.285	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357626-1 11/06/18 12:55 • (LCSD) R3357626-2 11/06/18 13:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	50.0	40.3	40.5	80.6	81.0	44.0-120			0.495	20
Chrysene	50.0	39.5	38.4	79.0	76.8	48.0-120			2.82	20
Dibenz(a,h)anthracene	50.0	40.8	40.9	81.6	81.8	47.0-120			0.245	20
3,3-Dichlorobenzidine	50.0	37.3	37.5	74.6	75.0	44.0-120			0.535	20
2,4-Dinitrotoluene	50.0	41.0	41.7	82.0	83.4	49.0-124			1.69	20
2,6-Dinitrotoluene	50.0	38.4	39.1	76.8	78.2	46.0-120			1.81	21
Fluoranthene	50.0	40.7	41.0	81.4	82.0	51.0-120			0.734	20
Fluorene	50.0	39.4	39.1	78.8	78.2	47.0-120			0.764	20
Hexachlorobenzene	50.0	41.5	41.8	83.0	83.6	44.0-120			0.720	20
Hexachloro-1,3-butadiene	50.0	34.0	33.9	68.0	67.8	19.0-120			0.295	32
Hexachlorocyclopentadiene	50.0	30.3	30.2	60.6	60.4	15.0-120			0.331	31
Hexachloroethane	50.0	34.0	33.4	68.0	66.8	15.0-120			1.78	37
Indeno(1,2,3-cd)pyrene	50.0	39.7	40.0	79.4	80.0	49.0-122			0.753	20
Isophorone	50.0	31.2	31.5	62.4	63.0	36.0-120			0.957	23
Naphthalene	50.0	31.7	31.3	63.4	62.6	27.0-120			1.27	27
Nitrobenzene	50.0	30.7	30.5	61.4	61.0	27.0-120			0.654	29
n-Nitrosodimethylamine	50.0	19.1	19.6	38.2	39.2	10.0-120			2.58	40
n-Nitrosodiphenylamine	50.0	37.6	37.5	75.2	75.0	47.0-120			0.266	20
n-Nitrosodi-n-propylamine	50.0	34.2	34.2	68.4	68.4	31.0-120			0.000	28
Phenanthrene	50.0	37.0	37.3	74.0	74.6	46.0-120			0.808	20
Benzylbutyl phthalate	50.0	35.8	35.8	71.6	71.6	43.0-121			0.000	20
Bis(2-ethylhexyl)phthalate	50.0	31.8	31.9	63.6	63.8	43.0-122			0.314	20
Di-n-butyl phthalate	50.0	43.7	44.1	87.4	88.2	49.0-121			0.911	20
Diethyl phthalate	50.0	40.4	40.8	80.8	81.6	48.0-122			0.985	20
Dimethyl phthalate	50.0	39.6	40.2	79.2	80.4	48.0-120			1.50	20
Di-n-octyl phthalate	50.0	33.5	33.5	67.0	67.0	42.0-125			0.000	20
Pyrene	50.0	37.4	36.9	74.8	73.8	47.0-120			1.35	20
1,2,4-Trichlorobenzene	50.0	33.1	32.7	66.2	65.4	24.0-120			1.22	29
4-Chloro-3-methylphenol	50.0	33.7	35.0	67.4	70.0	40.0-120			3.78	21
2-Chlorophenol	50.0	33.8	34.5	67.6	69.0	25.0-120			2.05	35
2,4-Dichlorophenol	50.0	36.0	36.0	72.0	72.0	36.0-120			0.000	26
2,4-Dimethylphenol	50.0	32.4	32.9	64.8	65.8	33.0-120			1.53	26
4,6-Dinitro-2-methylphenol	50.0	38.1	38.9	76.2	77.8	38.0-138			2.08	25
2,4-Dinitrophenol	50.0	32.7	34.4	65.4	68.8	10.0-120			5.07	39
2-Nitrophenol	50.0	36.8	36.5	73.6	73.0	31.0-120			0.819	29
4-Nitrophenol	50.0	17.6	18.9	35.2	37.8	10.0-120			7.12	33
Pentachlorophenol	50.0	26.9	30.1	53.8	60.2	23.0-120			11.2	25
Phenol	50.0	14.7	15.4	29.4	30.8	10.0-120			4.65	36
2,4,6-Trichlorophenol	50.0	40.0	39.8	80.0	79.6	42.0-120			0.501	23
(S) Nitrobenzene-d5				*58.4*	*58.9*	*10.0-127*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357626-1 11/06/18 12:55 • (LCSD) R3357626-2 11/06/18 13:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*69.2*	*67.8*	*10.0-130*				
(S) p-Terphenyl-d14				*71.8*	*70.0*	*10.0-128*				
(S) Phenol-d5				*27.0*	*27.3*	*10.0-120*				
(S) 2-Fluorophenol				*44.0*	*46.0*	*10.0-120*				
(S) 2,4,6-Tribromophenol				*75.5*	*78.0*	*10.0-155*				

L1039902-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1039902-01 11/06/18 22:00 • (MS) R3357626-4 11/06/18 22:23 • (MSD) R3357626-5 11/06/18 22:47

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	50.0	ND	33.3	35.4	66.6	70.8	1	28.0-120			6.11	25
Acenaphthylene	50.0	ND	32.9	35.8	65.8	71.6	1	31.0-121			8.44	25
Anthracene	50.0	ND	30.5	33.8	61.0	67.6	1	36.0-120			10.3	23
Benzidine	50.0	ND	4.33	4.33	8.66	8.66	1	1.00-120			0.000	37
Benzo(a)anthracene	50.0	ND	32.4	33.7	64.4	67.0	1	39.0-120			3.93	23
Benzo(b)fluoranthene	50.0	ND	35.0	35.6	69.6	70.8	1	37.0-120			1.70	23
Benzo(k)fluoranthene	50.0	ND	34.2	34.7	68.4	69.4	1	37.0-120			1.45	26
Benzo(g,h,i)perylene	50.0	ND	38.4	39.4	76.8	78.8	1	37.0-123			2.57	25
Benzo(a)pyrene	50.0	ND	30.5	33.0	61.0	66.0	1	37.0-120			7.87	24
Bis(2-chlorethoxy)methane	50.0	ND	27.5	29.2	55.0	58.4	1	17.0-120			6.00	31
Bis(2-chloroethyl)ether	50.0	ND	29.7	31.4	59.4	62.8	1	14.0-120			5.56	33
Bis(2-chloroisopropyl)ether	50.0	ND	29.6	31.3	59.2	62.6	1	18.0-120			5.58	34
4-Bromophenyl-phenylether	50.0	ND	36.2	37.8	72.4	75.6	1	37.0-120			4.32	24
2-Chloronaphthalene	50.0	ND	31.3	33.1	62.6	66.2	1	29.0-120			5.59	28
4-Chlorophenyl-phenylether	50.0	ND	35.9	38.6	71.8	77.2	1	36.0-120			7.25	23
Chrysene	50.0	ND	35.2	36.8	70.4	73.6	1	38.0-120			4.44	23
Dibenz(a,h)anthracene	50.0	ND	37.7	38.9	75.4	77.8	1	36.0-121			3.13	24
3,3-Dichlorobenzidine	50.0	ND	ND	4.10	0.000	8.20	1	10.0-134	J6	J3 J6	200	30
2,4-Dinitrotoluene	50.0	ND	37.9	40.3	75.8	80.6	1	39.0-125			6.14	25
2,6-Dinitrotoluene	50.0	ND	36.3	39.0	72.6	78.0	1	36.0-120			7.17	27
Fluoranthene	50.0	ND	37.9	39.8	75.8	79.6	1	41.0-121			4.89	22
Fluorene	50.0	ND	34.7	37.1	69.4	74.2	1	37.0-120			6.69	24
Hexachlorobenzene	50.0	ND	36.7	38.2	73.4	76.4	1	35.0-122			4.01	24
Hexachloro-1,3-butadiene	50.0	ND	31.6	33.4	63.2	66.8	1	12.0-120			5.54	34
Hexachlorocyclopentadiene	50.0	ND	16.1	17.7	32.2	35.4	1	10.0-120			9.47	33
Hexachloroethane	50.0	ND	28.4	30.2	56.8	60.4	1	10.0-120			6.14	40
Indeno(1,2,3-cd)pyrene	50.0	ND	36.6	38.2	73.2	76.4	1	38.0-125			4.28	24
Isophorone	50.0	ND	28.4	29.7	56.8	59.4	1	21.0-120			4.48	27

L1039902-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1039902-01 11/06/18 22:00 • (MS) R3357626-4 11/06/18 22:23 • (MSD) R3357626-5 11/06/18 22:47

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	50.0	ND	28.5	29.9	57.0	59.8	1	10.0-120			4.79	31
Nitrobenzene	50.0	ND	33.3	33.9	66.6	67.8	1	12.0-120			1.79	30
n-Nitrosodimethylamine	50.0	ND	23.0	22.8	46.0	45.6	1	10.0-120			0.873	40
n-Nitrosodiphenylamine	50.0	ND	31.3	34.3	62.6	68.6	1	37.0-120			9.15	24
n-Nitrosodi-n-propylamine	50.0	ND	30.0	31.9	60.0	63.8	1	16.0-120			6.14	30
Phenanthrene	50.0	ND	32.5	34.8	65.0	69.6	1	33.0-120			6.84	22
Benzylbutyl phthalate	50.0	ND	36.5	37.8	73.0	75.6	1	34.0-126			3.50	24
Bis(2-ethylhexyl)phthalate	50.0	ND	33.4	34.4	66.8	68.8	1	33.0-126			2.95	25
Di-n-butyl phthalate	50.0	ND	42.2	44.6	84.4	89.2	1	35.0-128			5.53	23
Diethyl phthalate	50.0	ND	36.9	39.3	73.8	78.6	1	39.0-125			6.30	24
Dimethyl phthalate	50.0	ND	35.1	37.3	70.2	74.6	1	37.0-120			6.08	24
Di-n-octyl phthalate	50.0	ND	36.2	37.6	72.4	75.2	1	25.0-135			3.79	26
Pyrene	50.0	ND	32.7	34.4	65.4	68.8	1	39.0-120			5.07	22
1,2,4-Trichlorobenzene	50.0	ND	30.2	32.1	60.4	64.2	1	15.0-120			6.10	31
4-Chloro-3-methylphenol	50.0	ND	32.2	34.7	64.4	69.4	1	26.0-120			7.47	27
2-Chlorophenol	50.0	ND	31.2	33.2	62.4	66.4	1	18.0-120			6.21	34
2,4-Dichlorophenol	50.0	ND	34.1	36.2	68.2	72.4	1	19.0-120			5.97	27
2,4-Dimethylphenol	50.0	ND	16.8	26.1	33.6	52.2	1	15.0-120		J3	43.4	28
4,6-Dinitro-2-methylphenol	50.0	ND	24.3	25.0	48.6	50.0	1	10.0-144			2.84	39
2,4-Dinitrophenol	50.0	ND	20.5	18.8	41.0	37.6	1	10.0-120			8.65	40
2-Nitrophenol	50.0	ND	35.5	37.6	71.0	75.2	1	20.0-120			5.75	30
4-Nitrophenol	50.0	ND	25.4	25.3	50.8	50.6	1	10.0-120			0.394	40
Pentachlorophenol	50.0	ND	28.1	26.6	56.2	53.2	1	10.0-128			5.48	37
Phenol	50.0	ND	16.0	16.6	28.5	29.7	1	10.0-120			3.68	40
2,4,6-Trichlorophenol	50.0	ND	38.4	41.5	76.8	83.0	1	26.0-120			7.76	31
(S) Nitrobenzene-d5					*54.7*	*58.1*		*10.0-127*				
(S) 2-Fluorobiphenyl					*61.7*	*66.5*		*10.0-130*				
(S) p-Terphenyl-d14					*66.2*	*68.7*		*10.0-128*				
(S) Phenol-d5					*28.8*	*30.6*		*10.0-120*				
(S) 2-Fluorophenol					*45.3*	*49.7*		*10.0-120*				
(S) 2,4,6-Tribromophenol					*76.5*	*82.0*		*10.0-155*				

Method Blank (MB)

(MB) R3357964-3 11/07/18 15:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*74.7*			*14.0-149*
(S) 2-Fluorobiphenyl	*62.5*			*34.0-125*
(S) p-Terphenyl-d14	*73.9*			*23.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357964-1 11/07/18 14:24 • (LCSD) R3357964-2 11/07/18 14:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0583	0.0567	72.9	70.9	50.0-126			2.78	20
Acenaphthene	0.0800	0.0570	0.0564	71.3	70.5	50.0-120			1.06	20
Acenaphthylene	0.0800	0.0550	0.0539	68.8	67.4	50.0-120			2.02	20
Benzo(a)anthracene	0.0800	0.0577	0.0564	72.1	70.5	45.0-120			2.28	20
Benzo(a)pyrene	0.0800	0.0558	0.0552	69.8	69.0	42.0-120			1.08	20
Benzo(b)fluoranthene	0.0800	0.0609	0.0584	76.1	73.0	42.0-121			4.19	20
Benzo(g,h,i)perylene	0.0800	0.0563	0.0551	70.4	68.9	45.0-125			2.15	20
Benzo(k)fluoranthene	0.0800	0.0612	0.0608	76.5	76.0	49.0-125			0.656	20
Chrysene	0.0800	0.0550	0.0540	68.8	67.5	49.0-122			1.83	20
Dibenz(a,h)anthracene	0.0800	0.0623	0.0608	77.9	76.0	47.0-125			2.44	20
Fluoranthene	0.0800	0.0624	0.0612	78.0	76.5	49.0-129			1.94	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357964-1 11/07/18 14:24 • (LCSD) R3357964-2 11/07/18 14:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.0800	0.0568	0.0559	71.0	69.9	49.0-120			1.60	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0591	0.0576	73.9	72.0	46.0-125			2.57	20
Naphthalene	0.0800	0.0552	0.0533	69.0	66.6	50.0-120			3.50	20
Phenanthrene	0.0800	0.0574	0.0559	71.8	69.9	47.0-120			2.65	20
Pyrene	0.0800	0.0558	0.0542	69.8	67.8	43.0-123			2.91	20
1-Methylnaphthalene	0.0800	0.0638	0.0618	79.8	77.3	51.0-121			3.18	20
2-Methylnaphthalene	0.0800	0.0572	0.0552	71.5	69.0	50.0-120			3.56	20
2-Chloronaphthalene	0.0800	0.0515	0.0523	64.4	65.4	50.0-120			1.54	20
(S) Nitrobenzene-d5				*85.5*	*82.9*	*14.0-149*				
(S) 2-Fluorobiphenyl				*71.0*	*69.5*	*34.0-125*				
(S) p-Terphenyl-d14				*78.2*	*77.2*	*23.0-120*				

L1040268-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1040268-03 11/07/18 16:09 • (MS) R3357964-4 11/07/18 16:30 • (MSD) R3357964-5 11/07/18 16:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0821	U	0.0545	0.0602	66.4	70.1	1	10.0-145			9.97	30
Acenaphthene	0.0821	U	0.0529	0.0583	64.5	67.8	1	14.0-127			9.71	27
Acenaphthylene	0.0821	U	0.0507	0.0562	61.8	65.5	1	21.0-124			10.3	25
Benzo(a)anthracene	0.0821	U	0.0538	0.0598	65.5	69.6	1	10.0-139			10.6	30
Benzo(a)pyrene	0.0821	U	0.0586	0.0649	71.4	75.5	1	10.0-141			10.1	31
Benzo(b)fluoranthene	0.0821	U	0.0575	0.0625	70.1	72.7	1	10.0-140			8.27	36
Benzo(g,h,i)perylene	0.0821	U	0.0519	0.0574	63.3	66.8	1	10.0-140			10.1	33
Benzo(k)fluoranthene	0.0821	U	0.0546	0.0612	66.6	71.2	1	10.0-137			11.4	31
Chrysene	0.0821	U	0.0503	0.0556	61.3	64.7	1	10.0-145			9.99	30
Dibenz(a,h)anthracene	0.0821	U	0.0571	0.0634	69.6	73.7	1	10.0-132			10.4	31
Fluoranthene	0.0821	U	0.0579	0.0636	70.5	74.0	1	10.0-153			9.42	33
Fluorene	0.0821	U	0.0529	0.0584	64.5	68.0	1	11.0-130			9.89	29
Indeno(1,2,3-cd)pyrene	0.0821	U	0.0544	0.0602	66.3	70.1	1	10.0-137			10.2	32
Naphthalene	0.0821	U	0.0494	0.0533	60.3	62.1	1	10.0-135			7.56	27
Phenanthrene	0.0821	U	0.0528	0.0584	64.3	68.0	1	10.0-144			10.1	31
Pyrene	0.0821	U	0.0510	0.0566	62.1	65.8	1	10.0-148			10.4	35
1-Methylnaphthalene	0.0821	U	0.0595	0.0639	72.5	74.4	1	10.0-142			7.17	28
2-Methylnaphthalene	0.0821	U	0.0532	0.0574	64.9	66.8	1	10.0-137			7.61	28
2-Chloronaphthalene	0.0821	U	0.0513	0.0548	62.5	63.8	1	29.0-120			6.71	24
(S) Nitrobenzene-d5					*80.8*	*80.2*		*14.0-149*				
(S) 2-Fluorobiphenyl					*65.0*	*66.0*		*34.0-125*				
(S) p-Terphenyl-d14					*70.3*	*72.2*		*23.0-120*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

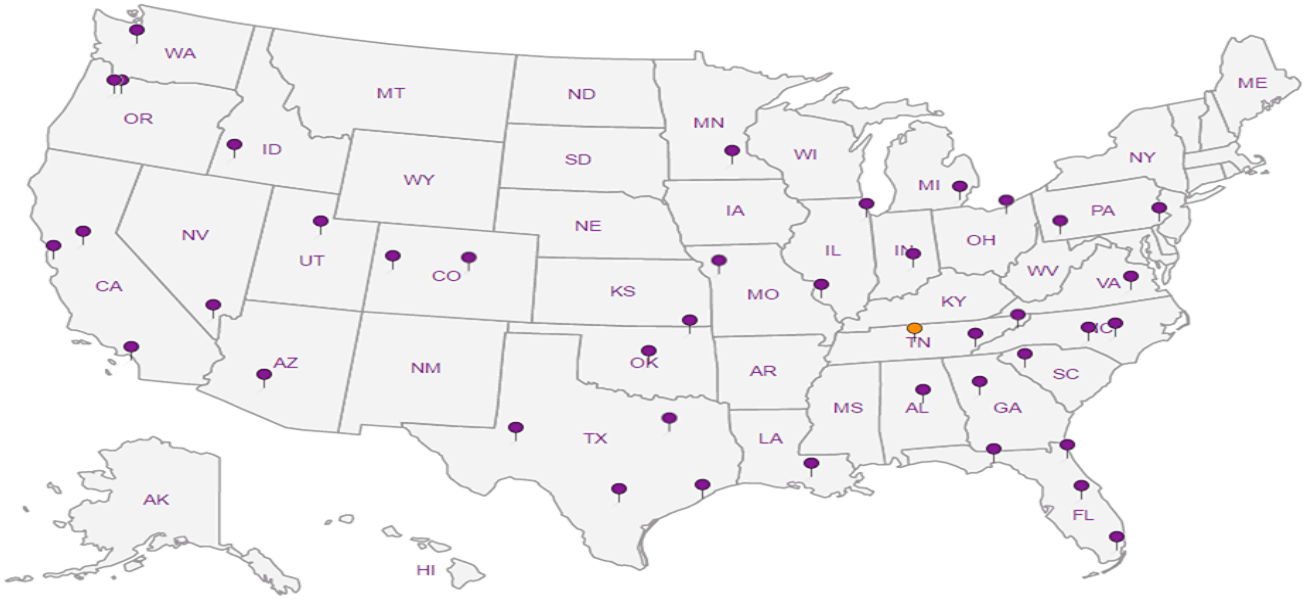
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



TRC - BNSF [redacted]ion 4
TRC - BNSF [redacted]ion 4

17911 Von Karman Ave, Ste 400
Irvine, CA 92614
17911 Von Karman Ave, Ste 400
Irvine, CA 92614

Billing Information:
Accounts Payable
17911 Von Karman Ave, Ste 400
Irvine, CA 92614

Report to:
Cassie Fausel
Cassie Fausel

Email To: cfausel@trcsolutions.com, meatone@trcsolutions.com

Project Description: BNSF - Ellis Reno - Barstow
Project Description: BNSF - Ellis Reno - Barstow

City/State Collected:

Phone: 949-341-7440
Phone: 949-341-7440
Fax:
Fax

Client Project #

Lab Project #
BNSF4TRC-ELLISRENO

Collected by (print):
Collected by (print):

Site/Facility ID #

PO #

Collected by (signature):
Collected by (signature)

Rush? (Lab MUST Be Notified)
Same Day, Next Day, Two Day, Three Day, Five Day, 5 Day (Rad Only), 10 Day (Rad Only)

Quote #

Date Results Needed

Immediately Packed on Ice N Y
Immediately Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DROCAER,SV8270PAHSIM 4oz Clr-NoPres	MG010CAM17 4oz Clr-NoPres	STLC/TCLP Extraction 4oz Clr-NoPres	SW8081,8082CA 4oz Clr-NoPres	VOC8260,GROCOA 40ml VIAL HCL/MeOH
B1-U		SS	Surface	10/31/18	1009	6	X	X	X	X	X
B1-5		SS	4.5-5		1034	6	X	X	X	X	X
B1-10		SS	9.5-10		1040	4	X	X	X	X	X
B1-15		SS	14.5-15		1048	4	X	X	X	X	X
B1-20		SS	19.5-20		1052	4	X	X	X	X	X
B2-0		SS	Surface		1047	6	X	X	X	X	X
B2-5		SS	4.5-5		1115	6	X	X	X	X	X
B2-10		SS	9.5-10		1128	4	X	X	X	X	X
B2-15		SS	14.5-15		1137	4	X	X	X	X	X
		SS									

* Matrix:
SS - Soil, AIR - Air, F - Filter, Sp - Sponge, AIR - Air, C - Filter, GW - Groundwater, GW - Groundwater, B - Bioassay, WW - Wastewater, WW - WasteWater, DW - Drinking Water, DW - Drinking Water, OT - Other, OT - Other

Remarks: ****Log as RX with a hard 5 day TAT****
Remarks: ****STLC/TCLP extraction on hold pending total metals results****

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: UPS, FedEx, Courier

Tracking #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	Date	Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	

Sample Receipt Checklist
COC Seals Present/Intact: NP Y N
COC Signature Present: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

If preservation required by Login: Date/Time
If preservation required by Login: Date/Time
Hold:

Condition: NCF / OK

Page of 2

Chain of Custody

Pace Analytical
National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Toll Free: 800-767-5859
Fax: 615-758-5859

L# 4104083741
F012

Acctnum: BNSF4TRC
Template: T142443
Prelogin: P678678
TSR: 134 - Mark W. Beasley
PB:
Shipped Via:
Remarks
Sample # (lab only)

TRC - BNSF Region 4
TRC - BNSF [redacted]ion 4

17911 Von Karman Ave, Ste 400
17911 Von Karman Ave, Ste 400
Irvine, CA 92614
Irvine, CA 92614

Billing Information:
Accounts Payable
17911 Von Karman Ave, Ste 400
Irvine, CA 92614

Report to:
Cassie Fausel
Cassie Fausel

Email To: cfausel@trcsolutions.com, mcarlton@trcsolutions.com

Project Description: BNSF - Ellis Reno - Barstow
Project Description: BNSF - Ellis Reno - Barstow

City/State Collected:

Phone: 949-341-7440
Phone: 949-341-7440
Fax:
Fax

Client Project #:

Lab Project #: BNSF4TRC-ELLISRENO

Collected by (print): Cassie Fausel
Collected by (print):

Site/Facility ID #:

PO #:

Collected by (signature):
Collected by (signature):

Rush? (Lab MUST Be Notified)
Rush? (Lab MUST Be Notified)
Same Day
Same Day
Next Day
Next Day
Two Day
Two Day
Three Day
Three Day
Five Day
Five Day
5 Day (Rad Only)
10 Day (Rad Only)
10 Day (Rad Only)

Quote #:

Date Results Needed:

Immediately Packed on Ice: N ___ Y ___
Packed on Ice: N ___ Y ___

Chain of Custody Page 2 of 2

Pace Analytical

Lab # L1084037441

Table #:

Acctnum: BNSF4TRC
Acctnum: BNSF4TRC
Template: T142443
Template: T142443
Prelogin: P678678
Prelogin: P678678
TSR: 134 - Mark W. Beasley
TSR: 134 - Mark W. Beasley
PB:
Shipped Via:
Shipped Via:

Sample ID / Sample ID	Comp/Grab / Comp/Grab	Matrix* / Matrix*	Depth / Depth	Date	Time	# of Cntrs	DROCAER,SVB270PAHSIM 4oz Clr-NoPres	M6010CAM17 4oz Clr-NoPres	STLC/TCLP Extraction 4oz Clr-NoPres	SVB081/8082CA 4oz Clr-NoPres	VB260, GROCA 40ml/NaHSO4/Syr/MeOH	8141B NOPAH 4oz Amb NoPres	8270D NOPAH 4oz Amber NoPres	8082 PCB NOPAH 4oz Amber NoPres	W 8260B NOPAH 40ml Amber -HCL	SW 8151 NOPAH 4oz Amber NoPres	Remarks	Sample # (lab only)
B3-B		SS	Surface	10/30/18	1112	6	X	X	X	X	X							18
B3-S		SS	4 F=F	↓	1140	6	X	X	X	X	X							11
		SS																
		SS																
		SS																
GW-1	grab	GW		10/30/18	1145	9						X	X	X	X	X		12

* Matrix:
SS - Soil AIR - Air F - Filter
SS - So AIR - Air F - Filter
GW - Groundwater B - Bioassay
GW - Groundwater B - Bioassay
WW - WasteWater
WW - WasteWater
DW - Drinking Water
DW - Drink ng Watet
OT - Other
OT - Other

Remarks: ***Log as RX with a hard 5 day TAT***
Remarks: ***Log as RX with a hard 5 day TAT***
****STLC/TCLP extraction on hold pending total metals results****
****STLC/TCLP extraction on hold pending total metals results****

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
Samples returned via:
___ UPS ___ Fedex ___ Courier ___ ___

Tracking #:

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC signed/accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If applicable
VOA zero headspace: Y N
If applicable
Preservation correct/checked: Y N

Relinquished by: (Signature)
Relinquished by: (Signature)
Date: 10/30/2018
Time: 1330

Received by: (Signature)
Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Temp: 2.6 °C
Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)
Relinquished by: (Signature)
Date: 10/30/2018
Time: 1445

Received for lab by: (Signature)
Received for lab by: (Signature)
Date: 11/1/18
Time: 0845

Hold:

Condition: (lab use only)
NCF / OK
OK

Pace Analytical®
National Center for Testing & Innovation

Login #: L1040274	Client: BNSF4TRC	Date: 11/1/18	Evaluated by: Jeremy

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		If Broken Container:
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courier
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		If no Chain of Custody:
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp/Cont Rec./pH:
					Carrier:
					Tracking#

Login Comments: Did not receive SW846 containers.

Client informed by:	Call	Email	Voice Mail	Date: 11/2/18	Time: 1340
TSR Initials: MB	Client Contact: Cassie Fussell				

Login Instructions:

Client notified

ANALYTICAL REPORT

December 04, 2018

TRC - BNSF Region 4

Sample Delivery Group:	L1048372
Samples Received:	11/30/2018
Project Number:	
Description:	BNSF - Ellis Reno - Barstow
Report To:	Cassie Fausel 17911 Von Karman Ave, Ste 400 Irvine, CA 92614

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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GW-1 L1048372-01 GW

Collected by	Collected date/time	Received date/time
Cassie Fausel	11/27/18 08:47	11/30/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1204443	1	12/02/18 14:41	12/03/18 12:00	ABL
Metals (ICP) by Method 6010B	WG1204008	1	12/01/18 12:54	12/03/18 13:22	ST
Metals (ICPMS) by Method 6020	WG1204009	1	12/01/18 10:57	12/02/18 11:38	WBD
Metals (ICPMS) by Method 6020	WG1204009	1	12/01/18 10:57	12/02/18 21:10	LD

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Project Manager

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury,Dissolved	ND		0.200	1	12/03/2018 12:00	WG1204443

Metals (ICP) by Method 6010B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium,Dissolved	19.2		5.00	1	12/03/2018 13:22	WG1204008
Beryllium,Dissolved	ND		2.00	1	12/03/2018 13:22	WG1204008
Chromium,Dissolved	ND		10.0	1	12/03/2018 13:22	WG1204008
Cobalt,Dissolved	ND		10.0	1	12/03/2018 13:22	WG1204008
Molybdenum,Dissolved	ND		5.00	1	12/03/2018 13:22	WG1204008
Vanadium,Dissolved	ND		20.0	1	12/03/2018 13:22	WG1204008

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	ND	J4	2.00	1	12/02/2018 11:38	WG1204009
Arsenic,Dissolved	13.5		2.00	1	12/02/2018 11:38	WG1204009
Cadmium,Dissolved	ND		1.00	1	12/02/2018 11:38	WG1204009
Copper,Dissolved	ND		5.00	1	12/02/2018 11:38	WG1204009
Lead,Dissolved	ND		2.00	1	12/02/2018 11:38	WG1204009
Nickel,Dissolved	ND		2.00	1	12/02/2018 11:38	WG1204009
Selenium,Dissolved	ND		2.00	1	12/02/2018 21:10	WG1204009
Silver,Dissolved	ND		2.00	1	12/02/2018 11:38	WG1204009
Thallium,Dissolved	ND		2.00	1	12/02/2018 11:38	WG1204009
Zinc,Dissolved	ND		25.0	1	12/02/2018 11:38	WG1204009

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3364724-1 12/03/18 11:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury,Dissolved	U		0.0490	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364724-2 12/03/18 11:27 • (LCSD) R3364724-3 12/03/18 11:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	3.00	3.24	3.21	108	107	80.0-120			0.902	20

L1048231-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1048231-01 12/03/18 11:32 • (MS) R3364724-4 12/03/18 11:35 • (MSD) R3364724-5 12/03/18 11:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	3.00	ND	3.17	3.29	106	110	1	75.0-125			3.90	20

Method Blank (MB)

(MB) R3364848-1 12/03/18 12:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium,Dissolved	U		1.70	5.00
Beryllium,Dissolved	U		0.700	2.00
Chromium,Dissolved	U		1.40	10.0
Cobalt,Dissolved	U		2.30	10.0
Molybdenum,Dissolved	U		1.60	5.00
Vanadium,Dissolved	U		2.40	20.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364848-2 12/03/18 12:41 • (LCSD) R3364848-3 12/03/18 12:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Barium,Dissolved	1000	1050	1040	105	104	80.0-120			0.580	20
Beryllium,Dissolved	1000	982	985	98.2	98.5	80.0-120			0.357	20
Chromium,Dissolved	1000	1040	1030	104	103	80.0-120			0.503	20
Cobalt,Dissolved	1000	1030	1010	103	101	80.0-120			1.33	20
Molybdenum,Dissolved	1000	1040	1020	104	102	80.0-120			1.46	20
Vanadium,Dissolved	1000	999	994	99.9	99.4	80.0-120			0.450	20

L1048264-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1048264-07 12/03/18 12:46 • (MS) R3364848-5 12/03/18 12:51 • (MSD) R3364848-6 12/03/18 12:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium,Dissolved	1000	54.2	1140	1090	109	104	1	75.0-125			4.70	20
Beryllium,Dissolved	1000	U	1000	995	100	99.5	1	75.0-125			0.516	20
Chromium,Dissolved	1000	U	1030	1010	103	101	1	75.0-125			2.46	20
Cobalt,Dissolved	1000	U	1020	1000	102	100	1	75.0-125			1.84	20
Molybdenum,Dissolved	1000	U	1030	1020	103	102	1	75.0-125			1.48	20
Vanadium,Dissolved	1000	4.82	997	1000	99.3	99.5	1	75.0-125			0.270	20

Method Blank (MB)

(MB) R3364542-1 12/02/18 08:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony,Dissolved	1.50	J	0.754	2.00
Arsenic,Dissolved	U		0.250	2.00
Cadmium,Dissolved	U		0.160	1.00
Copper,Dissolved	U		0.520	5.00
Lead,Dissolved	U		0.240	2.00
Nickel,Dissolved	U		0.350	2.00
Selenium,Dissolved	U		0.380	2.00
Silver,Dissolved	U		0.310	2.00
Thallium,Dissolved	U		0.190	2.00
Zinc,Dissolved	U		2.56	25.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364542-2 12/02/18 08:54 • (LCSD) R3364542-3 12/02/18 08:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony,Dissolved	50.0	60.2	60.7	120	121	80.0-120		J4	0.774	20
Arsenic,Dissolved	50.0	49.5	49.8	99.0	99.7	80.0-120			0.707	20
Cadmium,Dissolved	50.0	49.3	49.3	98.6	98.7	80.0-120			0.0648	20
Copper,Dissolved	50.0	51.5	51.6	103	103	80.0-120			0.181	20
Lead,Dissolved	50.0	49.6	50.2	99.2	100	80.0-120			1.17	20
Nickel,Dissolved	50.0	52.9	52.7	106	105	80.0-120			0.389	20
Selenium,Dissolved	50.0	51.2	50.2	102	100	80.0-120			2.08	20
Silver,Dissolved	50.0	52.1	52.0	104	104	80.0-120			0.128	20
Thallium,Dissolved	50.0	49.1	50.0	98.2	100	80.0-120			1.82	20
Zinc,Dissolved	50.0	51.2	51.4	102	103	80.0-120			0.301	20

L1048295-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1048295-01 12/02/18 09:03 • (MS) R3364542-5 12/02/18 09:13 • (MSD) R3364542-6 12/02/18 09:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony,Dissolved	50.0	0.995	65.2	64.7	128	127	1	75.0-125	J5	J5	0.827	20
Arsenic,Dissolved	50.0	3.67	53.2	53.5	99.0	99.7	1	75.0-125			0.664	20
Cadmium,Dissolved	50.0	U	49.2	48.2	98.3	96.4	1	75.0-125			1.93	20
Copper,Dissolved	50.0	88.7	142	145	106	113	1	75.0-125			2.50	20
Lead,Dissolved	50.0	0.463	50.7	49.3	100	97.6	1	75.0-125			2.83	20
Nickel,Dissolved	50.0	17.5	64.7	64.6	94.5	94.2	1	75.0-125			0.216	20
Selenium,Dissolved	50.0	U	52.6	53.4	105	107	1	75.0-125			1.55	20

L1048295-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1048295-01 12/02/18 09:03 • (MS) R3364542-5 12/02/18 09:13 • (MSD) R3364542-6 12/02/18 09:17

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver,Dissolved	50.0	U	50.4	49.9	101	99.8	1	75.0-125			0.936	20
Thallium,Dissolved	50.0	U	50.0	49.4	100	98.9	1	75.0-125			1.13	20
Zinc,Dissolved	50.0	80.1	124	126	88.7	91.5	1	75.0-125			1.14	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

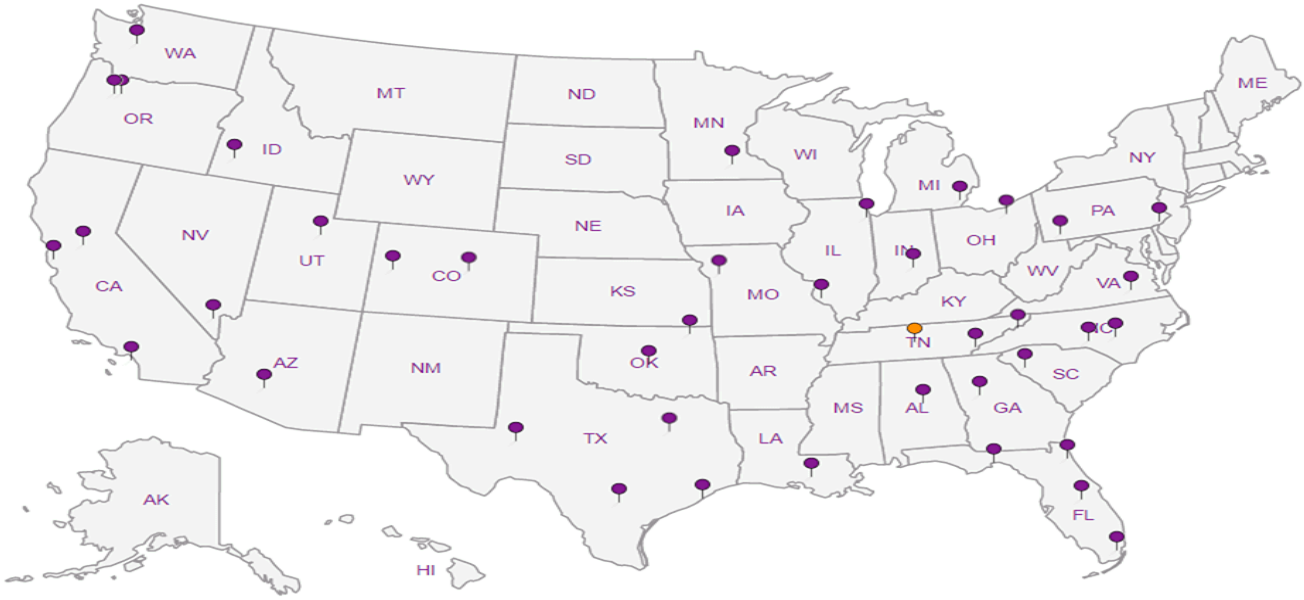
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



TRC - BNSF Region 4
1790 Walnut St Suite 100
Irvine CA 92614

Billing Information: Accounts Payable

Report to: Matt Eaton

Email To: meaton@trcsolutions.com

Project Description: BNSF - Remo Ellis Reno - Barstow

City/State Collected:

Phone: 949-341-7440
Fax:

Client Project #

Lab Project # BNSF4TRC-EllisReno

Collected by (print): Cassie Fausel

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: 48hr

Immediately Packed on Ice: N ___ Y X

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd.
Mount Juliet, TN 37122
Phone: 615.758.5858
Phone: 800.767.5859
Fax: 615.758.5859

L# L1048372

F129

Acctnum: BNSFTEC
Template: T142 1443
Prelogin: P472878
TSR: 1341 - Mike Beaty
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	Dissolved CAM 17 metals	Remarks	Sample # (lab only)
GW-1	grab	GW		11/27/18	8:47a	1	X		-01

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Dissolved Metals

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __UPS ✓FedEx __Courier _____

Tracking # 4361 6936 6363

Sample Receipt Checklist
COC Seal Present/Intact: NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD SCREEN: <0.5 mR/hr

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
for Cassie Fausel	11/29/18	1145			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 1 = A	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/30/18 Time: 9:00	Hold: Condition: NCF / OK

APPENDIX F

BORING LOGS

PROJECT NO.:	317656.0000.0000	DATE DRILLED:	October 30, 2018
LOCATION:	BNSF - Ellis Reno	LOGGED BY:	C. Fausel
	21880 Main Street	APPROVED BY:	M. Eaton, PG
	Barstow, California	DRILLING CO./RIG:	J&H Drilling Co., Inc./ Direct Push

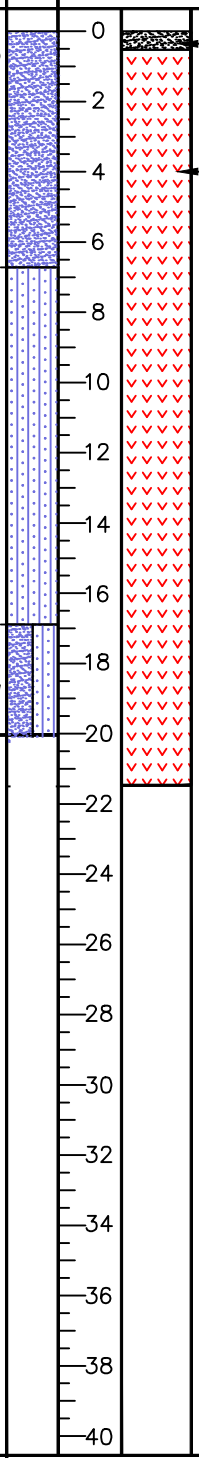
DRILLING METHOD: Direct Push

SAMPLER TYPE: Acetate Liner

TOTAL DEPTH 20.0feet OBSERVED DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppm)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
	0.1		0	Surface Material: Sand.	
			2	POORLY GRADED SAND: Black (10YR 6/4), loose, dry, trace coarse-grained sand, non cohesive, no plastic, no odor.	SP
				Light yellowish brown (10YR 6/4)	
	0		4		
			6		
			8		
	0		10	SILTY SAND: yellowish brown (10YR 5/4), medium dense, cohesive, no plastic, no odor.	SM
			12		
			14		
	0		16		
			18		
	0		20	POORLY GRADED SAND WITH SILT & GRAVEL: brown (7.5YR 5/3), medium dense, cohesive, no plastic, no odor.	SP/SM
				Bottom of boring 20.0 fbg	
			22		
			24		
			26		
			28		
			30		
			32		
			34		
			36		
			38		
			40		

GRAPHIC LOG



BORING CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

(SEE BORING LOG KEY FOR LEGEND)

B1

PROJECT NO.:	317656.0000.0000	DATE DRILLED:	October 30, 2018
LOCATION:	BNSF - Ellis Reno	LOGGED BY:	C. Fausel
	21880 Main Street	APPROVED BY:	M. Eaton, PG
	Barstow, California	DRILLING CO./RIG:	J&H Drilling Co., Inc./ Direct Push

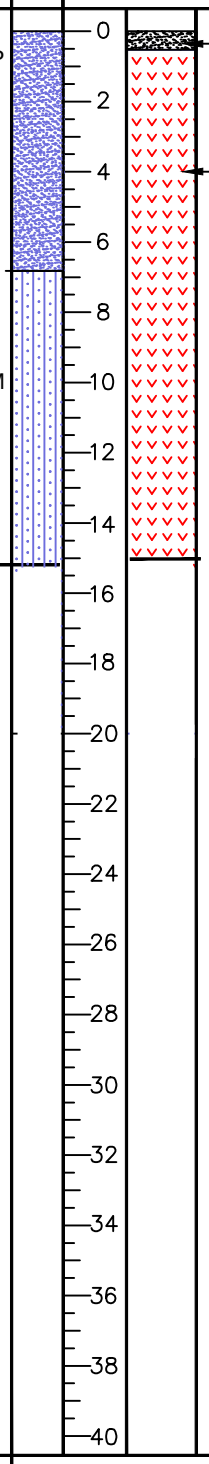
DRILLING METHOD: Direct Push

SAMPLER TYPE: Acetate Liner

TOTAL DEPTH: 15 feet OBSERVED DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppm)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
	0.1		0	Surface Material: Sand. POORLY GRADED SAND: dark brown, stained, loose, dry, non cohesive, no odor.	SP
	0		4		
	0		10	SILTY SAND: light yellowish brown (10YR 6/4), dry, trace coarse-grained sand, non cohesive, no plastic, no odor.	SM
	0		14		
			16	Bottom of boring 15.0 fbg	

GRAPHIC LOG



BORING CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

(SEE BORING LOG KEY FOR LEGEND)

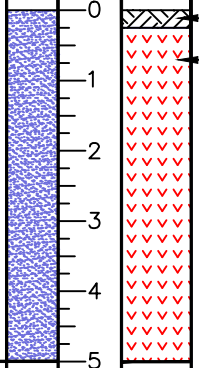
B2

PROJECT NO.:	317656.0000.0000	DATE DRILLED:	October 30, 2018
LOCATION:	BNSF - Ellis Reno	LOGGED BY:	C. Fausel
	21880 Main Street	APPROVED BY:	M. Eaton, PG
	Barstow, California	DRILLING CO./RIG:	J&H Drilling Co., Inc./ Direct Push

DRILLING METHOD: Hand Auger
SAMPLER TYPE: Hand Auger
TOTAL DEPTH: 5.0 feet OBSERVED DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppm)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
	0.3		0	Surface Material: Soil. Hand Augered to 5 fbg. POORLY GRADED SAND: black (10YR 2/1), stained, no plastic, non cohesive, no odor.	SP
			1	No staining brown.	
	0		2	Very pale brown (10YR 7/3).	
			3	POORLY GRADED SAND: Very pale brown (10YR 7/3), no plastic, non cohesive, no odor.	
	0		4		
			5	Bottom of boring 5.0 fbg	
			6		
			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

GRAPHIC LOG



BORING CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

(SEE BORING LOG KEY FOR LEGEND)

B3

R M

M

BNSF – Condemnation Properties
Rios Property
0421-04-133, 0421-04-138
0421-04-140, 0421-04-141
Barstow, California 92311

r r d r
BNSF Railway Company
2500 Lou Menk Drive, AOB-3
Fort Worth, TX 76131

r r d B
TRC Environmental Corporation
6 Executive Circle, Suite 200
Irvine, CA 92614
949-727-9336

r r d B
Jose Maldonado
Project Geologist

R d
Tyler Gomoll
Environmental Professional

r r
605453.0001.0000

October 2024

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Figure

Figure 1: Subject Property Location
Figure 2: Subject Property Layout – 2020 Aerial Photograph
Figure 2A: Subject Property Layout

Appendices

Appendix A: Database Radius Report
Appendix B: Historical Research Documentation
Appendix C: Other Reference Information
Appendix D: Photograph Log
Appendix E: TRC Staff and Environmental Professional Qualifications/Resumes
Appendix F: Environmental Professional Statement

MMR

TRC Environmental Corporation (TRC) was retained by BNSF Railway Company (also known as “BNSF” or “Client” or “User”) to perform a Phase I Environmental Site Assessment (ESA) of the property owned by Rios, Nicholas which is located at 22150 Main Street in Barstow, California 92311 (herein referred to as the “subject property”). TRC conducted the Phase I ESA in connection with the Client’s planned purchase of the subject property. The Phase I ESA described in this report was performed in accordance with the scope and limitations of the ASTM International Practice E1527-21 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (hereinafter “ASTM Practice E1527-21” or “ASTM Standard”). Limiting conditions and/or deviations from the ASTM Practice E1527-21 standard are described in Sections 1.3 and 7.7 of this report.

The subject property is approximately 6.25 acres, is identified by Assessor’s Parcel Numbers (APNs) 0421-04-133-0000, 0421-04-138-0000, 0421-04-140-0000, and 0421-04-141-0000 and has been owned by Rios, Nicholas since January 12, 2011. The subject property is currently zoned as vacant/rural and is partially developed. There are several abandoned structural improvements on the subject property.

d

This assessment has revealed no evidence of recognized environmental conditions (RECs), controlled RECs (CRECs), or historical RECs (HRECs) in connection with the subject property, other than the following:

- The historical presence of the orchard on the subject property is a REC.
- The historical presence of an illegal drug lab is a REC to the subject property.

The extensive debris and general disrepair, charred remains of a former residence, and potential historical use of the property as a tire change/auto repair shop are a REC to the subject property. Although not a REC per the ASTM definition, the following items are noted, and BNSF should be aware of relative to potential environmental conditions which may or may not require further evaluations:

- Two water well installation permits were issued for the subject property in 1987 and 1989, respectively. There are no known records concerning the abandonment of these water wells, and the water wells may remain on the subject property.
- The PG&E Hinkley site, a well-known and high-profile site involving contamination of groundwater by hexavalent chromium (this is the "Erin Brockovich Site") is located approximately 4.9 miles to the north of the subject property (i.e., north of the Mojave River). Since the PG&E site is >1 mile from the subject property, the PG&E site is not identified in the EDR Report. However, BNSF should be aware of the site and its location relative to the properties being acquired by BNSF in this area.

R d

The following recommendations are provided:

- If during grading or redevelopment, evidence for soil contamination is identified such as staining or odors, the potential presence of septic systems associated with the existing structures, and/or buried structures or piping are identified, further evaluations and soil sampling would be recommended.

This Executive Summary is part of this complete report; the findings, opinions, or conclusions in this Executive Summary are made in context with the complete report. TRC recommends that the User read the entire report for supporting information related to findings, opinions, and conclusions.

[illegible]

TRC Environmental Corporation (TRC) has prepared this Phase I Environmental Site Assessment (ESA) for BNSF Railway Company (hereinafter, “BNSF,” “Client,” or “User”). This report was prepared for and may be relied upon by Client and User for the purposes set forth herein; it may not be relied on by any party other than the Client and User.

[illegible]

The following Phase I ESA was performed for four parcels located at 22150 Main Street in Barstow, California 92311 (hereinafter the “subject property”). A subject property location map is included as [illegible]. TRC prepared this Phase I ESA in accordance with the ASTM International E1527-21 *Standard Practice for Environmental Site Assessments: Phase I ESA Process* (hereinafter “ASTM Practice E1527-21” or “ASTM Standard”) and is intended for the sole use of BNSF.

The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) at the subject property, as defined by ASTM Practice E1527-21. The completion of this Phase I ESA report may be used to satisfy one of the requirements for the User to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser liability protections pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice as defined by 42 United States Code §9601(35)(B) of CERCLA.

The Scope of Services for this Phase I ESA included the following tasks:

- Subject property and vicinity reconnaissance;
- Subject property and vicinity description and physical setting;
- Historical sources review and a description of historical subject property and adjoining property conditions;
- Interviews with owners, operators, and/or occupants of the subject property, and/or local officials;
- Review of environmental databases and regulatory agency records;
- Review of previous environmental reports/documentation, as applicable;
- Review of environmental liens, if provided or authorized to obtain by the User; and
- Preparation of a report summarizing findings, opinions, and conclusions.

Additional Services

Items outside the scope of ASTM Practice E1527-21 are, but are not limited to the following:

- Substances not defined as Hazardous Substances
- Asbestos-containing building materials
- Radon
- Lead-based paint
- Lead in drinking water
- Wetlands
- Regulatory compliance
- Cultural and historic resources
- Industrial hygiene
- Health and safety
- Ecological resources
- Endangered species
- Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment
- Biological agents
- Mold
- Polychlorinated Biphenyl (PCB)-containing building materials

No additional services were performed outside the scope of ASTM Practice E1527-21.

Deviations or Deletions

No significant deviations or deletions to the ASTM Standard were made during this Phase I ESA.

[illegible]

[illegible]

The subject property location, ownership, and parcel information are included in the following table. A subject property location map is included as [illegible].

[illegible]

Location	22150 Main Street, Barstow, CA 92311
Primary use of surrounding area	Vacant/Rural
Acreage	6.25-acres
Parcel Numbers	0421-04-133-0000, 0421-04-138-0000, 0421-04-140-0000, 0421-04-141-0000
Zoning	Residential (Max 14 units)/Exempt, Church
Owner	Rios, Nicholas
Operator	Rios, Nicholas

[illegible]

Current subject property improvements are listed in the following table. A subject property layout is included as [illegible].

[illegible]

Buildings	There are four abandoned buildings onsite: • A large, white barn style structure on the east side of the property • A small, pink shed towards the northeast • A medium, blue structure near the northwest corner • A raised wooden structure with exposed beams There is also evidence of a burned down structure, where a portion of a standing brick wall remains
Exterior areas	None
On-site roads/rail lines	There are a few dirt roads within the contiguous parcels.
Potable water supply	None
Sewage disposal system(s)	None
Stormwater system	Overland flow
Heating system	None
Cooling system	None

[illegible]

Back-up fuel source(s)	None
Electricity supplier	None, City of Barstow powerlines within the subject property.

[illegible]

2.3.1 Current Subject Property Use(s)

The subject property is vacant with abandoned structural improvements and debris.

2.3.2 Previous Owner and Operator Information

Historical site ownership is generally summarized below as it is listed in the San Bernardino County Property Information Management System (PIMS). Both current and historical property ownership can be viewed in the PIMS Reports, which are included in [illegible].

[illegible]

Rios, Nicholas	Current Owner	01/12/2011	Present
Partial ownerships with eight parties	Previous Owner	12/28/2010	01/11/2011
Nordsieck, Daryll	Historical Owner	12/02/2008	12/27/2010
Partial ownerships with nine parties	Historical Owner	02/16/2007	12/01/2008
Partial ownerships with three parties	Historical Owner	03/06/2006	02/15/2007
Hileman, Lee & Terry	Historical Owner	10/28/1998	03/05/2006
Hileman, Katherine & Paul	Historical Owner	06/10/1982	10/27/1998
Geraci, John	Historical Owner	None	06/09/1982

[illegible]

According to United States Geological Survey topographic maps reviewed, including the map included as [illegible], the subject property topographic elevation is approximately 2,332 feet above mean sea level, and local topography is generally to the northwest. Groundwater flow direction in the Mojave River Groundwater Basin near the subject property is generally to the northwest.

The database radius report, supplied by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, was reviewed to obtain information regarding the dominant soil composition in the vicinity of the subject property. This information is summarized below:

M D

Hydric Status:	Not hydric
Soil Surface Texture:	Sand
Soil Component Name:	Cajon (Class A)
Deeper Soil Types:	Sand, Stratified gravelly sand to sand

M D

Hydric Status:	Not hydric
Soil Surface Texture:	Loam
Soil Component Name:	Joshua (Class C)
Deeper Soil Types:	Loam, Gravelly sandy clay loam, Very gravelly coarse sandy loam

M D

Hydric Status:	Not hydric
Soil Surface Texture:	Not reported
Soil Component Name:	Nebona (Class D)
Deeper Soil Types:	Not reported

Please refer to the Geocheck Physical Setting Source Summary of the EDR report presented in **d** for further information regarding the soil composition in the vicinity of the subject property. Per Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map 06071C4508H, dated August 28, 2008, the subject property is located in Zone D, with undetermined flood hazards. Flooding may represent a potential risk. See **d** for the FEMA map.

[illegible] [illegible]R[illegible]R[illegible] [illegible]D[illegible]D[illegible] [illegible]RM[illegible] [illegible]

According to ASTM Practice E1527-21, certain tasks that may help identify the presence of RECs associated with the subject property are generally conducted by the Phase I ESA User. These tasks include providing or authorizing the environmental professional to obtain recorded land title records for environmental liens or activity and use limitations (AULs); providing specialized knowledge related to RECs at the subject property (e.g., information about previous ownership or environmental litigation); providing commonly known or reasonably ascertainable information within the local community about the subject property that is material to RECs in connection with the subject property; and informing the environmental professional if, as believed by the User, the purchase price of the subject property is lower than the fair market value due to contamination. A User questionnaire was not provided.

[illegible] R[illegible]rd[illegible]r[illegible]r[illegible] [illegible]r[illegible]d[illegible]

The User has not provided TRC with information associated with a review of title and judicial records for environmental liens or AULs associated with the subject property and may remain as a User requirement to satisfy All Appropriate Inquiries.

An Environmental Lien Search was provided by EDR for parcel 0421-04-133-0000. No environmental liens or AULs were identified for the parcel. A copy of the environmental lien report is included in [illegible]d[illegible]B.

[illegible] R[illegible]r[illegible]d[illegible]

TRC understands the User requires a Phase I ESA for their purchase and of the subject property.