



AEI Consultants

February 12, 2018

LIMITED PHASE II SUBSURFACE INVESTIGATION

Property Identification:

13400 Hanford Armona Road
Hanford, California 93230

AEI Project No. 383288

Prepared for:

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And

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And

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Environmental
Due Diligence

Building
Assessments

Site Investigation
& Remediation

Energy Performance
& Benchmarking

Industrial Hygiene

Construction
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National Presence

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February 12, 2018

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7522 North Colonial Avenue
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Subject: Limited Phase II Subsurface Investigation
13400 Hanford Armona Road
Hanford, California 93230
AEI Project No. 383288

AEI Consultants (AEI) is pleased to provide this report which describes the activities and results of the Limited Phase II Subsurface Investigation (Phase II) performed at the above referenced Site (Figures 1 and 2). This investigation was completed in general accordance with the authorized scope of services outlined in our authorized proposal number 56106.

1.0 SITE DESCRIPTION

The Site consists of a single-story manufacturing/distribution warehouse occupied by Ted Martin Welding Shop, M.V. Transportation, Woodside Electronics, and Layne Pump Company with associated south adjacent parking lot on the north side of Hanford Armona Road in an industrial area of Hanford, California (Figure 2). The Site is relatively flat and sits at an elevation of approximately 238 feet above mean sea level. The regional topographic gradient direction slopes toward the southeast and, therefore, the direction of groundwater flow beneath the Site is inferred to be to the southeast. The Last Chance Ditch water way is located approximately 0.33 mile to the northeast.

According to the City of Hanford Public Works department website, the City of Hanford domestic water system is a groundwater system. Water is pumped from wells ranging in depths from 600 to 1,700 feet below ground surface (bgs). Excess water runoff from the Kings River helps replenish the basin's groundwater.

According to the First Quarter 2017 Quarterly Monitoring Report for 12778 Hanford Armona Road, located approximately 165 feet southwest of the Site, first groundwater is estimated to be at a depth ranging from 33 to 35 feet bgs.

2.0 BACKGROUND

AEI reviewed a Phase I Environmental Site Assessment (ESA) performed by Encon Solutions, Inc. (ESI) as detailed in a report dated January 2, 2018. As detailed in the Phase I ESA, industrial operations have been associated with the Site from at least 1967 to present.

An on-site septic system was believed to be installed sometime between 1967 and 1977. In 1977, the septic system was reportedly repaired, but detailed nature and cause of the repair is unknown. The septic system in conjunction with a long period of industrial manufacturing and automotive repair operations may pose a potential environmental concern.

Former rail tracks and access were believed to be located on the north end of the Site. The rail road spur was removed. Spurs are known to pose an inherent risk to adversely impact subsurface environments. Based on a review of ESI's Phase I ESA, ESI could not rule out the possibility that the former railroad spur at the northern border of the Site was used in the delivery and handling of hazardous materials. Railroad spurs often represent environmental concerns due to the historic application of oil containing polychlorinated biphenyls (PCBs), herbicides, and arsenic for pest and weed control. This is identified as a recognized environmental concern (REC).

Industrial manufacturing operations such as electronic sorters and harvesters, water well drilling company, machining, aluminum parts manufacturing, milling and tubing manufacturing, as well as automotive repair and service business operations can pose environmental risks. Used oil, parts cleaning solvents, thinners, lacquers, brake fluids, automotive coolant, car batteries and other petroleum/chemical substances are suspected to have been used. The absence of detailed information about the industrial operations at the Site is identified as a REC.

Based on the historic industrial manufacturing operations, the potential exists that subsurface of the Site has been adversely impacted. As such, AEI recommended the performance of a Phase II in order to determine if the Site has been adversely impacted by the former industrial operations.

3.0 INVESTIGATION EFFORTS

AEI was requested to perform a limited subsurface investigation, including the collection of soil and soil gas samples, to evaluate if the subsurface has been significantly impacted by the historic industrial operations at the Site.

This work was performed under the oversight of a California licensed Professional Geologist.

3.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

3.2 Permitting and Utility Clearance

Drilling permits were not required for this investigation. The public underground utility locating service DigAlert was notified to identify public utilities in the work area. Private utility locating was conducted by Ground Penetrating Radar Systems, Inc. (GPRS) of Los Angeles, California to identify underground utilities on the Site.

3.3 Geophysical Survey

On January 30, 2018, a geophysical survey was conducted by GPRS. The purpose of the survey was to evaluate the planned boring locations for subsurface anomalies and utilities. The



geophysical survey was conducted using a magnetometer and ground penetrating radar. The results from the geophysical survey indicated that there were no obstructions in the selected boring locations.

The client should be aware of the inherent limitations of geophysical surveying methods and that above and underground utilities and other man-made or natural features (i.e. automobiles, debris piles, tree roots, reinforced concrete, certain soil conditions, etc.), if in the area of the survey, may decrease the effectiveness of the survey. The client should be aware that the lack of a detection of a feature from a geophysical survey does not mean that the feature does not exist only that it was not detected.

3.4 Drilling and Soil Sample Collection

On January 30, 2018, seven (7) soil borings (B-1 through B-7) were advanced on the Site (Figure 2). The borings were advanced by AEI using a hand-held rotary hammer with direct-push capability. The borings were advanced to depths of 5 feet below ground surface (bgs). Borings were attempted to be advanced to terminal depth of 10 feet bgs. However, after several attempts in each boring location refusal was met repeatedly at a depth of 5 feet bgs. The locations of each boring are listed below:

- Boring B-1 was advanced in the interior of eastern suite of the Site building.
- Boring B-2 was advanced south of the Site building, near the septic system.
- Boring B-3 was near the etched concrete in the Site building.
- Boring B-4 was advanced north of B-3, near the stained concrete.
- Boring B-5 was advanced north of the Site building, near the railroad track.
- Boring B-6 was advanced near the oil storage area on the western portion of the Site.
- Boring B-7 was advanced near Hanford Armona Road, southern boring on the Site.

The borings were advanced using 1.5-inch outer diameter rods and samples were collected by advancing the rods with acetate sample liners in approximately 5-foot intervals. After each interval, the core was retrieved, core barrel disassembled, and the sample liner was removed and transferred to the onsite geologist.

The soil borings were logged using the Unified Soil Classification System. A photo ionization detector (PID) was used to screen soil samples in the field and the PID readings for each sample were included on the boring logs (Appendix A). Selected soil samples were collected and sealed in 4-ounce glass jars.

Down-hole equipment was decontaminated using a triple rinse system containing detergent.

3.5 Soil Gas Sample Collection

On January 30, 2018, soil gas sampling was conducted on the Site. Soil gas probes were installed at 5 feet bgs in the three interior borings (B-1, B-3, and B-4) on Site. Each soil gas probe consisted of 1/4th-inch inner diameter Teflon[®] sampling tubing, with a 0.5-foot section of screen that was placed at the targeted depth of 5 feet bgs. Approximately one foot of sand was placed at the terminus of the soil gas probes, and approximately one foot of dry granular bentonite was placed on top of the sand pack. Hydrated bentonite was used to backfill the remaining borehole space



to ground surface to prevent ambient air intrusion. The tubing end of each probe was sealed with a stainless-steel compression cap at ground surface.

The subsurface was allowed a minimum of 2 hours to equilibrate before the soil gas probes were sampled. Soil gas samples were collected in laboratory provided, batch certified 1.4-Liter passivated canisters by AEI personnel in general accordance with the July 2015, DTSC and the Los Angeles RWQCB, "Advisory – Active Soil Gas Investigations."

A shut-in test was performed to test the integrity of the sample train by closing the valve closest to the gas probe, opening the purge valve, and using a clean syringe to draw a vacuum. Once a vacuum of approximately 5 inches of mercury was achieved, the open valve was closed and allowed to sit for a minimum of 1 minute. If a drop-in vacuum was observed, fittings were tightened, and the test was performed again. Following the successful completion of the shut-in test, a leak check was performed by applying a leak check compound (Isopropanol) to the sampling connections. A total of 3 volumes of air were purged from each probe and a sample was collected using a laboratory-supplied regulator set at 200 milliliters per minute.

3.6 Boring Destruction

Following completion of sample collection and removal of tooling, the borings were backfilled with hydrated granular bentonite and completed at the surface with concrete and native soils to match the surrounding conditions.

3.7 Laboratory Analyses

On January 30, 2018, soil samples from the seven (7) borings were collected, labeled and placed into a cooler with ice following sampling. Soil gas samples from the three (3) interior borings were collected, labeled and stored. The samples were transferred under appropriate chain-of-custody documentation to Eurofins/CalScience of Garden Grove, California. Laboratory analytical documentation is provided in Appendix B.

Laboratory analysis of seven (7) soil samples consisted of the following:

- Total Petroleum Hydrocarbons (TPH-cc) by United States (U.S.) Environmental Protection Agency (EPA) Method 8015M
- Volatile Organic Compounds (VOCs) by U.S. EPA Method 8260B

Laboratory analysis of one (1) soil sample (B-5) consisted of the following:

- PCBs by U.S. EPA Method 8082
- Semi-Volatile Organic Compounds (SVOCs) by U.S. EPA Method 8270C
- Herbicides by U.S. EPA Method 8151
- Arsenic by U.S. EPA Method 6010B

Laboratory analysis of three (3) soil gas samples consisted of the following:

- VOCs by U.S. EPA Method TO-15

3.8 Investigation Derived Wastes

No investigation derived waste was created during this investigation.



4.0 FINDINGS

The analytical results for TPH-cc, VOCs, PCBs, SVOCs and herbicides in soil and VOCs in soil gas were reviewed and compared to the Environmental Screening Levels (ESLs) published by the San Francisco Bay Regional Water Quality Control Board (RWQCB) and updated as of February 2016. The ESLs are conservative screening levels for over one hundred chemicals and enable the evaluation of the impact of these chemicals in soil, groundwater, soil gas and indoor air. They are intended to help expedite the identification and evaluation of potential environmental concerns at impacted sites.

The soil result for arsenic from this investigation was reviewed and compared to the background concentrations of metals that naturally exists in California soils. A study entitled Background Concentrations of Trace and Major Elements in California Soils, dated March 1996, by the Kearney Foundation of Soil Science was reviewed for information on the concentrations of background metals in California soils. The Kearny report is a relevant source used by public policy makers and those in the private sector concerned with environmental remediation and land use planning.

4.1 Geology and Hydrogeology

Sediment encountered in each of the borings generally consisted of slightly dense to dense silty sands interbedded with fine gravels and underlaid by dense clayey sands (Appendix A).

Groundwater was not encountered in borings B-1 through B-7 and was not part of the investigation.

4.2 Soil Sample Analytical Results

The following information is a summary of the soil sample analytical test results (Appendix B). This information has also been included in Table 1.

- Dimethyl phthalate was detected in the soil sample from boring B-5 at a concentration of 0.62 mg/kg, which slightly exceeds the comparison value of 0.035 mg/kg.
- Arsenic was detected in the soil sample from boring B-5 below its respective comparison value.
- TPH-o was detected in the sample from boring B-5 at a concentration below the respective comparison value.
- VOCs, PCBs, and herbicides were not detected in the soil samples submitted for analysis.

4.3 Soil Gas Sample Analytical Results

The following information is a summary of the soil gas sample analytical test results (Appendix B). This information has also been included in Table 2.

- VOCs, including Tetrachloroethylene (PCE), were detected in the soil gas samples collected. However, the detected concentrations were below their respective comparison values.



The leak check compound Isopropanol was detected but was not above 10 times the reporting limit for the target analyte (Isopropanol) which would indicate that corrective action is necessary (DTSC April 2012).

5.0 SUMMARY AND CONCLUSIONS

AEI has completed a Limited Phase II at the Site. The purpose of the Limited Phase II at the Site was to evaluate potential impacts from historic and current conditions related to industrial operations on the Site. A total of seven (7) borings were advanced at the Site for the collection of soil samples and a total of three (3) soil gas samples were collected.

The soil samples submitted for analysis as part of this investigation were analyzed for TPH-cc, VOCs, PCBs, and herbicides. Detected concentrations of these constituents were below their respective comparison levels.

Dimethyl phthalate was detected in the soil sample submitted from boring B-5 at a concentration of 0.62 mg/kg, which slightly exceeds the ESL comparison level of 0.035 mg/kg. According to the City of Hanford Public Works website, the drinking water source near the Site ranges from depths of 600 to 1,700 feet bgs. It is highly unlikely for this detected compound to migrate to the drinking water source. The nearest surface water is a channelized waterway 0.33 mile to the northeast. This waterway is part of the Last Chance Ditch, is only periodically flowing, and occasionally dry. Therefore, the pathway from the detection to the nearest surface water is also incomplete. In addition, the pathway to the surface from the 5-foot depth of this detection is incomplete due to the area being covered with asphalt, and therefore poses no risk to onsite workers.

Based on these results, AEI has determined there is no direct exposure risk from this exceedance and recommends no further action.



6.0 REPORT LIMITATIONS AND RELIANCE

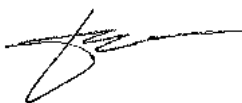
This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the Site. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Mr. Rhodlee Braa/Old Dominion Capital, Cathay Bank, and the U.S. Small Business Administration. All reports, both verbal and written, whether in draft or final, are for the benefit of Mr. Rhodlee Braa/Old Dominion Capital, Cathay Bank, and the U.S. Small Business Administration. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Mr. Rhodlee Braa/Old Dominion Capital. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact AEI at (310) 798-4255.

Sincerely,
AEI Consultants



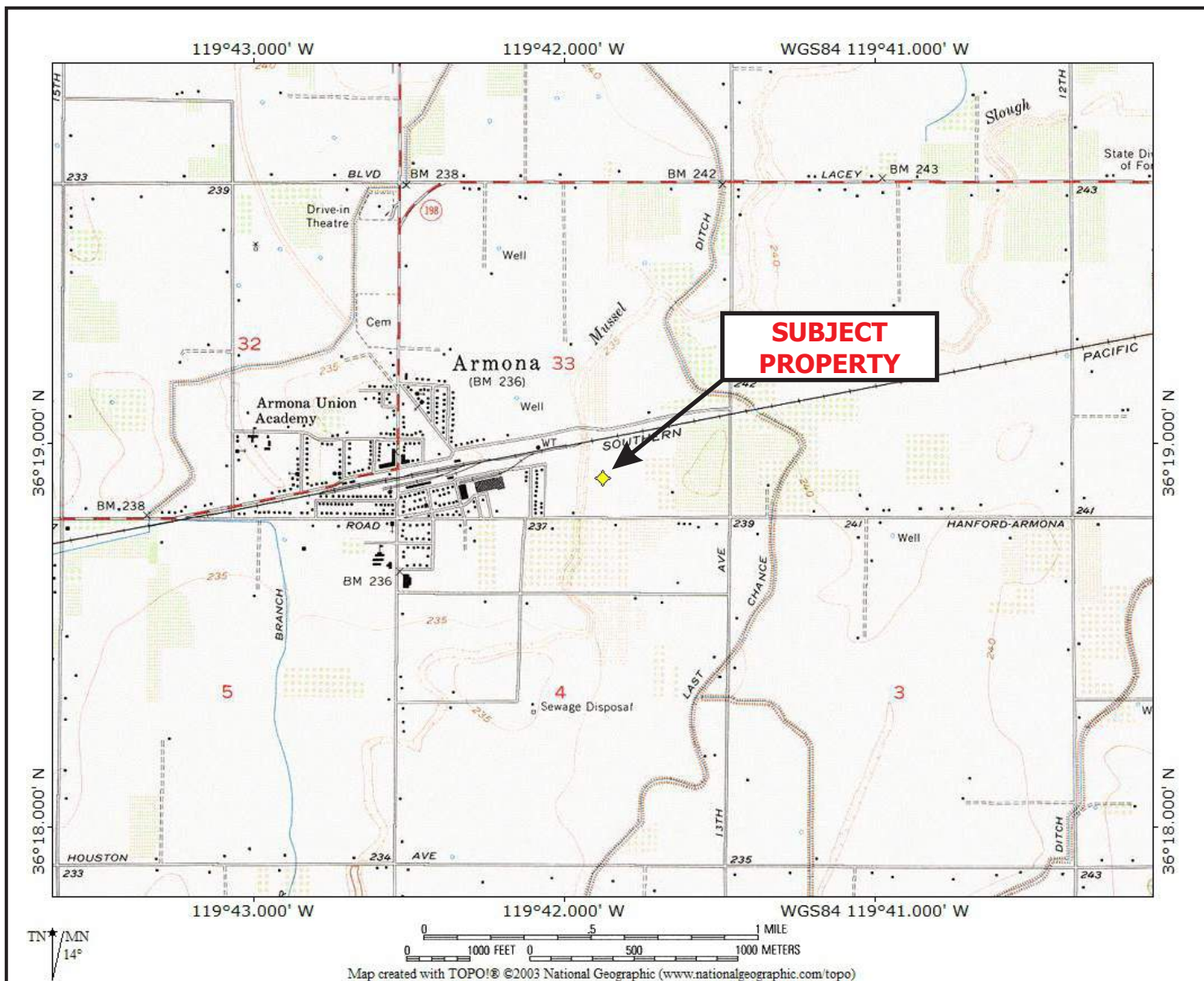
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Kent Vollmer, PG, CEG
Department Manager



FIGURES



LEGEND

Map: Hanford, California
Date: 1954
Source: USGS



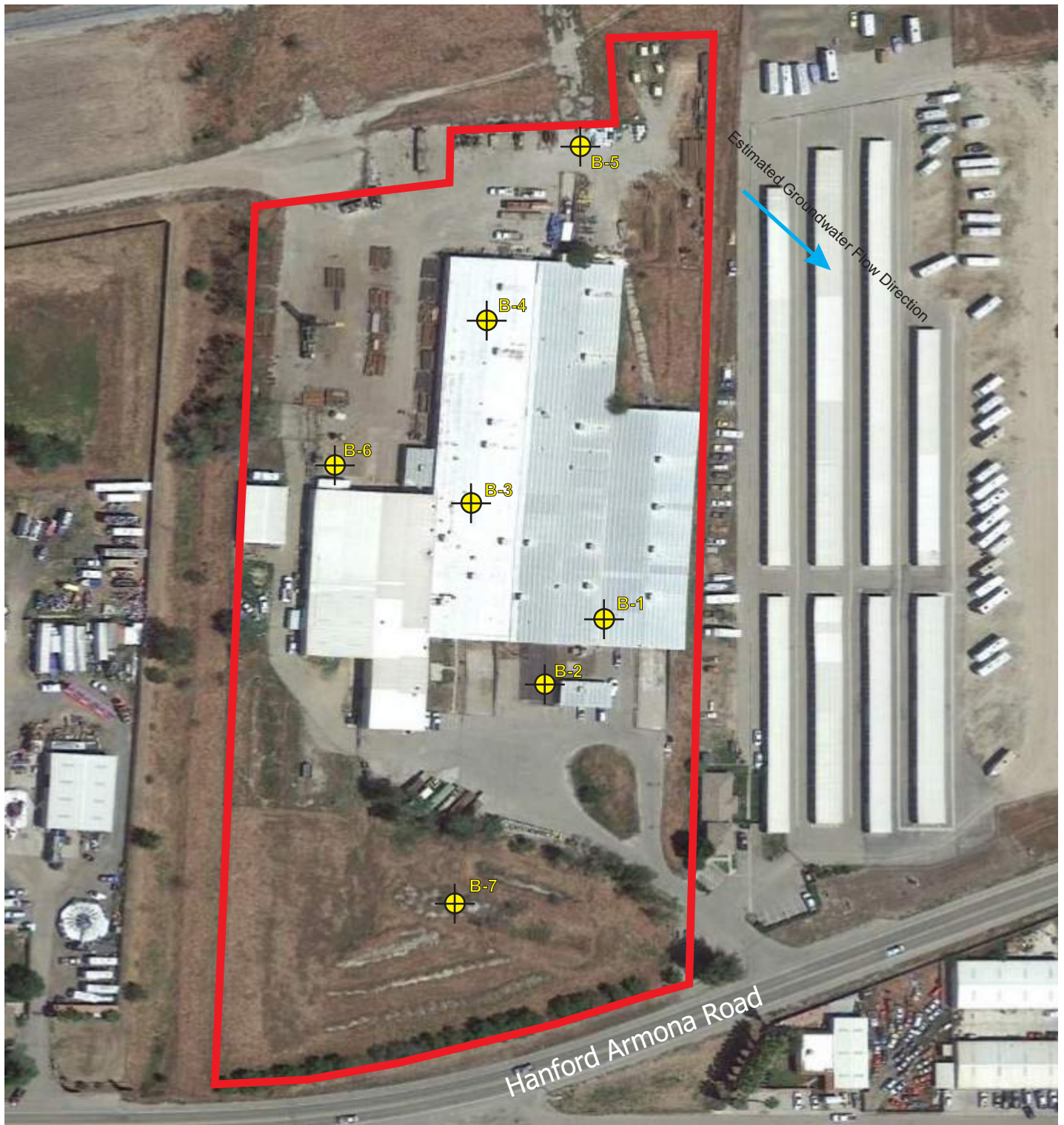
AEI Consultants

2207 West 190th Street, Los Angeles, California 90504

SITE LOCATION MAP

13400 Hanford Armona Road
Hanford, California 93230

FIGURE 1
Project No. 383288



0 100 200
SCALE: 1" = 200'

LEGEND

- Approximate Property Boundary
- ⊙ B-7 Approximate Sampling Locations



AEI Consultants

2207 West 190th Street, Torrance, California 90504

SITE MAP

13400 Hanford Armona Rd.
Hanford, CA 93230

FIGURE 2
Project No. 383288

TABLES

TABLE 1: SOIL SAMPLE DATA SUMMARY
13400 Hanford Armona Road, Hanford, California 93230
AEI Project No. 383288

			U.S. EPA Method 8015M			U.S. EPA Method 8260B								U.S. EPA Method 8082	U.S. EPA Method 8151	U.S. EPA Method 6010B/7471A	U.S. EPA Method 8270C
Location ID	Date	Depth (feet bgs)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-o (mg/kg)	Tetrachloro ethylene (PCE) (mg/kg)	Trichloro- ethylene (TCE) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	o- Xylenes (mg/kg)	m/p- Xylenes (mg/kg)	All Other VOCs (mg/kg)	PCBs (mg/kg)	Herbicides (mg/kg)	Arsenic (mg/kg)	Dimethyl Phthalate (mg/kg)
B-1	1/30/2018	5	ND<15	ND<15	ND<15	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	<MDL	NA	NA	NA	NA
B-2	1/30/2018	5	ND<15	ND<15	ND<15	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	<MDL	NA	NA	NA	NA
B-3	1/30/2018	5	ND<15	ND<15	ND<15	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	<MDL	NA	NA	NA	NA
B-4	1/30/2018	5	ND<15	ND<15	ND<15	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	ND<0.0051	<MDL	NA	NA	NA	NA
B-5	1/30/2018	5	ND<15	ND<15	17	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	<MDL	<MDL	<MDL	2.07	0.62
B-6	1/30/2018	5	ND<15	ND<15	ND<15	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	<MDL	NA	NA	NA	NA
B-7	1/30/2018	1	ND<15	ND<15	ND<15	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	<MDL	NA	NA	NA	NA
Comparison Values in mg/kg from California Environmental Screening Levels (ESLs) San Fransisco Bay Regional Water Quality Control Board, February 2016			100	230	5,100	0.42	0.46	0.044	2.9	1.4	2.3		Varies	Varies	Varies	--	0.035
Comparison Values based on California Maximum Background Concentrations in mg/kg*			--	--	--	--	--	--	--	--	--	--	--	--	--	11	--

Notes:

mg/kg	Analyses performed by Eurofins/CalScience, Garden Grove, California	EPA	Environmental Protection Agency
ND<	Milligrams per kilogram	--	Comparison Value not Applicable
bgs	Not detected above the method detection limit (MDL)	TPH-g	Total Petroleum Hydrocarbons as gasoline
VOCs	below ground surface	TPH-d	Total Petroleum Hydrocarbons as diesel
Bold	Volatile Organic Compounds	TPH-o	Total Petroleum Hydrocarbons as oil
J	Result exceeds applicable Comparison Value		
NA	Estimated value above laboratory method detection limit, but below the limit for reporting		
*	Not Analyzed		
	From kearney Foundation of Soil Science 1996 Report "Background Concentrations of Trace and Major Elements in California Soils"		

TABLE 2: SOIL GAS SAMPLE DATA SUMMARY
13400 Hanford Armona Road, Hanford, California 93230
AEI Project No. 383288

U.S. EPA Method TO-15																			
Location ID	Date	Depth	Tetrachloro-ethylene (PCE)	Benzene	Toluene	Ethyl-benzene	o-Xylene	p/m-Xylene	Acetone	2-Butanone (MEK)	Chloroform	Carbon Disulfide	1,4-Dichloro-benzene	4-Ethyl-toluene	Isopropanol	4-Methyl-2-Pentanone	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	All Other VOCs
		(feet bgs)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
B-1	1/30/2018	5	ND<3.4	26	130	21	20	72	150	24	ND<2.4	66	55	6.4	29	27	18	7.1	<MRL
B-3	1/30/2018	5	35	2.0	3.4	ND<2.2	ND<2.2	ND<8.7	79	16	ND<2.4	14	4.5	ND<2.5	15	16	ND<7.4	ND<2.5	<MRL
B-4	1/30/2018	5	8.8	ND<1.6	2.4	ND<2.2	ND<2.2	ND<8.7	59	9.7	3.6	14	ND<3.0	ND<2.5	ND<12	ND<6.1	ND<7.4	ND<2.5	<MRL
Comparison values for Commerclai/Industrial Soil Gas in (µg/m³), California Environmental Screening Levels (ESLs) San Fransisco Bay Regional Water Quality Control Board, February 2016			2,100	420	1,300,000	4,900	440,000	140,000,000	22,000,000	530	--	1,100	--	--	--	--	--	--	Varies

Notes:

µg/m³

<MRL

ND<

bgs

--

VOCs

EPA

J

Bold

Analysis performed by Eurofins/CalScience, Garden Grove, CA

Micrograms per cubic meter

Less than the method reporting limit

Not detected above method reporting limit (MRL)

below ground surface

Comparison value not applicable

Volatile Organic Compounds

Environmental Protection Agency

Estimated value above the laboratory method detection limit, but below the limit for reporting

Result exceeds a Comparison Value

APPENDIX A

Boring Logs

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Interior boring, south eastern part of the main building</u>	AFTER DRILLING <u>--- N/A</u>

AEI BORING - GINT STD US LAB GDT - 2/2/18 16:12 - P:\COMPANYWIDE PROJECTS\383000 SERIES\383288 HANFORD, CA\PII\BORING LOGS\383288 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
0.4					0.0' - 0.4': Concrete	
1	B-1-1		0		(SM) 0.4' - 5: SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, loose, dry.	
2						
2.1	B-1-2.5		2.1		(SM) SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, slightly dense, dry	
3						
4						
5	B-1-5		6.7		(SM) SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, dense, dry	
5.0						

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Exterior boring, near the septic system</u>	AFTER DRILLING <u>--- N/A</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
					0.0' - 0.2': Native soil with vegetation	
1	B-2-1		0		(SM) 0.2' - 5.0': SILTY SAND, dark olive brown (2.5YR, 3/3), fine to medium, slightly dense, damp, trace subrounded gravel.	
2	B-2-2.5		1.6		(SM) SILTY SAND, dark olive brown (2.5YR, 3/3), fine to medium, dense, damp, trace subrounded gravel.	
3						
4						
5	B-2-5		6.8		(SM) SILTY SAND, dark olive brown (2.5YR, 3/3), fine to medium, dense, damp.	
5.0						

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Interior boring, southern boring near the etched concrete</u>	AFTER DRILLING <u>--- N/A</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
					0.0' - 0.4': Concrete	
0.4						
1	B-3-1		2.1		(SM) 0.4' - 5: SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, loose, dry.	
2	B-3-2.5		2.6		(SM) SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, dense, dry	
3						
4						
5	B-3-5		5.8		(SM) SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, dense, dry	
5.0						

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

AEI BORING - GINT STD US LAB GDT - 2/2/18 16:12 - P:\COMPANYWIDE PROJECTS\3833000 SERIES\383288 HANFORD, CA\PII\BORING LOGS\383288 BORING LOGS.GPJ

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Interior boring, near the stained concrete</u>	AFTER DRILLING <u>--- N/A</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
					0.0' - 0.4': Concrete	
1	B-4-1		1.2		(SM) 0.4' - 5: SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, loose, dry.	
2	B-4-2.5		3.6		(SM) SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, slightly dense, dry.	
3						
4						
5	B-4-5		4.1		(SM) SILTY SAND, light olive brown (2.5YR, 5/4), fine to medium, dense, dry.	
5.0						

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Northern boring, near the railroad track</u>	AFTER DRILLING <u>--- N/A</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
0.3					0.0' - 0.3': Asphalt	
1	B-5-1		0		(SP) 0.3' - 3.5': Sand with silt, light brownish grey (2.5YR, 6/2), fine, loose, dry, trace subrounded and subangular gravel, trace clay.	
2	B-5-2.5		1.3		(SP) Sand with silt, light brownish grey (2.5YR, 6/2), fine, loose, dry, trace subrounded and subangular gravel, trace clay.	
3						
4						
5	B-5-5		3.2		(SC) 3.5' - 5.0': CLAYEY SAND, light brownish grey (2.5YR, 6/2), fine, dense, slightly damp, trace subrounded gravel.	
5.0						

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Western boring, near the oil storage area</u>	AFTER DRILLING <u>--- N/A</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
					0.0' - 0.2': Gravelly Sand	
1	B-6-1		0		(SP) 0.2' - 3.5': Sand with silt, light brownish grey (2.5YR, 6/2), fine, loose, dry, trace subrounded and subangular gravel, trace clay.	
2	B-6-2.5		6.2		(SP) Sand with silt, light brownish grey (2.5YR, 6/2), fine, loose, dry, trace subrounded and subangular gravel, trace clay.	
3						
4						
5	B-6-5		9.5		(SC) 3.5' - 5.0': CLAYEY SAND, light brownish grey (2.5YR, 6/2), fine, dense, slightly damp, trace subrounded gravel.	

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

CLIENT <u>Old Dominion Capital</u>	PROJECT NAME <u>Limited Phase II Subsurface Investigation</u>
PROJECT NUMBER <u>383288</u>	PROJECT LOCATION <u>13400 Hanford Armona Rd., Hanford, CA 93230</u>
DATE STARTED <u>1/30/18</u> COMPLETED <u>1/30/18</u>	GROUND ELEVATION _____ HOLE SIZE <u>1.5 inches</u>
DRILLING CONTRACTOR <u>AEI Consultants, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Roto-Hammer</u>	AT TIME OF DRILLING <u>--- N/A</u>
LOGGED BY <u>Dashiell Geyer</u> CHECKED BY <u>Kent Vollmer</u>	AT END OF DRILLING <u>--- N/A</u>
NOTES <u>Southern boring on the property, near Hanford Armona Road</u>	AFTER DRILLING <u>--- N/A</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
					0.0' - 0.3': Native soil with vegetation	
1	B-7-1		3.5		(SW) 0.3' - 5.0': SAND, light yellowish brown (2.5YR, 6/4), fine to medium, slightly dense, dry, trace subrounded gravel.	
2	B-7-2.5		0		(SW) SAND, light yellowish brown (2.5YR, 6/4), fine to coarse, slightly dense, dry, trace subrounded gravel.	
3						
4						
5	B-7-5		0		(SW) SAND, light yellowish brown (2.5YR, 6/4), fine to coarse, slightly dense, dry, trace subrounded gravel.	
5.0						

AEI BORING - GINT STD US LAB GDT - 2/2/18 16:12 - P:\COMPANYWIDE PROJECTS\3833000 SERIES\383288 HANFORD, CA\PIH\BORING LOGS\383288 BORING LOGS.GPJ

Refusal at 5.0 feet.
Bottom of borehole at 5.0 feet.

APPENDIX B

Laboratory Analytical Reports

**WORK ORDER NUMBER: 18-01-2135***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For**Client:** AEI Consultants**Client Project Name:** 383288**Attention:** Kent Vollmer
2207 West 190th Street
Torrance, CA 90504-6001

A handwritten signature in black ink, appearing to read "L. Thompson".

Approved for release on 02/05/2018 by:
Lori Thompson
Project Manager

[ResultLink ▶](#)[Email your PM ▶](#)

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 18-01-2135

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Work Order Narrative

Work Order: 18-01-2135

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/31/18. They were assigned to Work Order 18-01-2135.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Sample Summary

Client: AEI Consultants	Work Order: 18-01-2135
2207 West 190th Street	Project Name: 383288
Torrance, CA 90504-6001	PO Number: 152277
	Date/Time Received: 01/31/18 12:22
	Number of Containers: 21
Attn: Kent Vollmer	

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-1-1	18-01-2135-1	01/30/18 09:48	1	Solid
B-1-2.5	18-01-2135-2	01/30/18 09:50	1	Solid
B-1-5	18-01-2135-3	01/30/18 10:10	1	Solid
B-2-1	18-01-2135-4	01/30/18 10:23	1	Solid
B-2-2.5	18-01-2135-5	01/30/18 10:28	1	Solid
B-2-5	18-01-2135-6	01/30/18 10:35	1	Solid
B-3-1	18-01-2135-7	01/30/18 11:00	1	Solid
B-3-2.5	18-01-2135-8	01/30/18 11:10	1	Solid
B-3-5	18-01-2135-9	01/30/18 11:30	1	Solid
B-4-1	18-01-2135-10	01/30/18 12:06	1	Solid
B-4-2.5	18-01-2135-11	01/30/18 12:10	1	Solid
B-4-5	18-01-2135-12	01/30/18 12:25	1	Solid
B-5-1	18-01-2135-13	01/30/18 13:05	1	Solid
B-5-2.5	18-01-2135-14	01/30/18 13:10	1	Solid
B-5-5	18-01-2135-15	01/30/18 13:53	1	Solid
B-6-1	18-01-2135-16	01/30/18 14:15	1	Solid
B-6-2.5	18-01-2135-17	01/30/18 14:23	1	Solid
B-6-5	18-01-2135-18	01/30/18 14:30	1	Solid
B-7-1	18-01-2135-19	01/30/18 15:11	1	Solid
B-7-2.5	18-01-2135-20	01/30/18 15:18	1	Solid
B-7-5	18-01-2135-21	01/30/18 15:26	1	Solid

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: 383288

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1-5	18-01-2135-3-A	01/30/18 10:10	Solid	GC 46	02/01/18	02/01/18 21:28	180201B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	95	60-140	

B-2-5	18-01-2135-6-A	01/30/18 10:35	Solid	GC 46	02/01/18	02/01/18 21:49	180201B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	97	60-140	

B-3-5	18-01-2135-9-A	01/30/18 11:30	Solid	GC 46	02/01/18	02/01/18 22:10	180201B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	94	60-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: 383288

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4-5	18-01-2135-12-A	01/30/18 12:25	Solid	GC 46	02/01/18	02/01/18 22:31	180201B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	100	60-140	

B-5-5	18-01-2135-15-A	01/30/18 13:53	Solid	GC 46	02/01/18	02/01/18 22:53	180201B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	17	15	1.00	
TPH C6-C40 Total	18	15	1.00	
TPH Gas/Diesel	21	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	96	60-140	

B-6-5	18-01-2135-18-A	01/30/18 14:30	Solid	GC 46	02/01/18	02/01/18 23:13	180201B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	92	60-140	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-7-1	18-01-2135-19-A	01/30/18 15:11	Solid	GC 46	02/01/18	02/01/18 23:34	180201B07

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	99	60-140	

Method Blank	099-15-476-397	N/A	Solid	GC 46	02/01/18	02/01/18 20:07	180201B07
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH C6-C10	ND	15	1.00	
TPH C10-C28	ND	15	1.00	
TPH C28-C40	ND	15	1.00	
TPH C6-C40 Total	ND	15	1.00	
TPH Gas/Diesel	ND	15	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	100	60-140	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5-5	18-01-2135-15-A	01/30/18 13:53	Solid	ICP 7300	02/01/18	02/01/18 17:17	180201L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	2.07	0.777	1.04	

Method Blank	097-01-002-25846	N/A	Solid	ICP 7300	02/01/18	02/01/18 16:12	180201L01
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Arsenic	ND	0.743	0.990	

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: 383288

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5-5	18-01-2135-15-A	01/30/18 13:53	Solid	GC 58	02/01/18	02/02/18 12:08	180201L05

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	107	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

Method Blank	099-12-535-4542	N/A	Solid	GC 58	02/01/18	02/02/18 10:38	180201L05
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Decachlorobiphenyl	119	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 8151A
Method: EPA 8151A
Units: ug/kg

Project: 383288

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5-5	18-01-2135-15-A	01/30/18 13:53	Solid	GC 40	01/31/18	02/01/18 19:10	180131L17

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Dalapon	ND	250	1.00	
Dicamba	ND	9.8	1.00	
MCP	ND	9800	1.00	
MCPA	ND	9800	1.00	
Dichlorprop	ND	98	1.00	
2,4-D	ND	98	1.00	
2,4,5-TP (Silvex)	ND	9.8	1.00	
2,4,5-T	ND	9.8	1.00	
2,4-DB	ND	98	1.00	
Dinoseb	ND	49	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
2,4-Dichlorophenylacetic acid	50	44-146	

Method Blank	095-01-033-1542	N/A	Solid	GC 40	01/31/18	02/01/18 18:01	180131L17
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Dalapon	ND	250	1.00	
Dicamba	ND	10	1.00	
MCP	ND	10000	1.00	
MCPA	ND	10000	1.00	
Dichlorprop	ND	100	1.00	
2,4-D	ND	100	1.00	
2,4,5-TP (Silvex)	ND	10	1.00	
2,4,5-T	ND	10	1.00	
2,4-DB	ND	100	1.00	
Dinoseb	ND	50	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
2,4-Dichlorophenylacetic acid	94	44-146	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5-5	18-01-2135-15-A	01/30/18 13:53	Solid	GC/MS CCC	02/02/18	02/02/18 15:53	180202L01

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.49	1.00	
Acenaphthylene	ND	0.49	1.00	
Aniline	ND	0.49	1.00	
Anthracene	ND	0.49	1.00	
Azobenzene	ND	0.49	1.00	
Benzidine	ND	9.9	1.00	
Benzo (a) Anthracene	ND	0.49	1.00	
Benzo (a) Pyrene	ND	0.49	1.00	
Benzo (b) Fluoranthene	ND	0.49	1.00	
Benzo (g,h,i) Perylene	ND	0.49	1.00	
Benzo (k) Fluoranthene	ND	0.49	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.49	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.49	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.49	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.49	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.49	1.00	
Butyl Benzyl Phthalate	ND	0.49	1.00	
4-Chloro-3-Methylphenol	ND	0.49	1.00	
4-Chloroaniline	ND	0.49	1.00	
2-Chloronaphthalene	ND	0.49	1.00	
2-Chlorophenol	ND	0.49	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.49	1.00	
Chrysene	ND	0.49	1.00	
Di-n-Butyl Phthalate	ND	0.49	1.00	
Di-n-Octyl Phthalate	ND	0.49	1.00	
Dibenz (a,h) Anthracene	ND	0.49	1.00	
Dibenzofuran	ND	0.49	1.00	
1,2-Dichlorobenzene	ND	0.49	1.00	
1,3-Dichlorobenzene	ND	0.49	1.00	
1,4-Dichlorobenzene	ND	0.49	1.00	
3,3'-Dichlorobenzidine	ND	9.9	1.00	
2,4-Dichlorophenol	ND	0.49	1.00	
Diethyl Phthalate	ND	0.49	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: 383288

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Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	0.62	0.49	1.00	
2,4-Dimethylphenol	ND	0.49	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.49	1.00	
2,6-Dichlorophenol	ND	0.49	1.00	
2,6-Dinitrotoluene	ND	0.49	1.00	
Fluoranthene	ND	0.49	1.00	
Fluorene	ND	0.49	1.00	
Hexachloro-1,3-Butadiene	ND	0.49	1.00	
Hexachlorobenzene	ND	0.49	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.49	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.49	1.00	
Isophorone	ND	0.49	1.00	
2-Methylnaphthalene	ND	0.49	1.00	
1-Methylnaphthalene	ND	0.49	1.00	
2-Methylphenol	ND	0.49	1.00	
3/4-Methylphenol	ND	0.49	1.00	
N-Nitroso-di-n-propylamine	ND	0.49	1.00	
N-Nitrosodimethylamine	ND	0.49	1.00	
N-Nitrosodiphenylamine	ND	0.49	1.00	
Naphthalene	ND	0.49	1.00	
4-Nitroaniline	ND	0.49	1.00	
3-Nitroaniline	ND	0.49	1.00	
2-Nitroaniline	ND	0.49	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.49	1.00	
2-Nitrophenol	ND	0.49	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.49	1.00	
Phenol	ND	0.49	1.00	
Pyrene	ND	0.49	1.00	
Pyridine	ND	0.49	1.00	
1,2,4-Trichlorobenzene	ND	0.49	1.00	
2,4,6-Trichlorophenol	ND	0.49	1.00	
2,4,5-Trichlorophenol	ND	0.49	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants	Date Received:	01/31/18
2207 West 190th Street	Work Order:	18-01-2135
Torrance, CA 90504-6001	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: 383288		Page 3 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
2-Fluorobiphenyl	77	27-120	
2-Fluorophenol	76	25-120	
Nitrobenzene-d5	74	33-123	
p-Terphenyl-d14	86	27-159	
Phenol-d6	74	26-122	
2,4,6-Tribromophenol	73	18-138	

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-549-4104	N/A	Solid	GC/MS CCC	02/02/18	02/02/18 13:26	180202L01

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: 383288

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Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dichlorophenol	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants	Date Received:	01/31/18
2207 West 190th Street	Work Order:	18-01-2135
Torrance, CA 90504-6001	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: 383288		Page 6 of 6

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
2-Fluorobiphenyl	90	27-120	
2-Fluorophenol	86	25-120	
Nitrobenzene-d5	93	33-123	
p-Terphenyl-d14	101	27-159	
Phenol-d6	86	26-122	
2,4,6-Tribromophenol	90	18-138	

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1-5	18-01-2135-3-A	01/30/18 10:10	Solid	GC/MS GGG	01/31/18	01/31/18 21:05	180131L025

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	51	1.00	
n-Butylbenzene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
Carbon Disulfide	ND	51	1.00	
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.1	1.00	
4-Chlorotoluene	ND	5.1	1.00	
Dibromochloromethane	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
Isopropylbenzene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Naphthalene	ND	51	1.00	
n-Propylbenzene	ND	5.1	1.00	
Styrene	ND	5.1	1.00	
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
Trichloroethene	ND	5.1	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	110	79-133	
1,2-Dichloroethane-d4	112	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2-5	18-01-2135-6-A	01/30/18 10:35	Solid	GC/MS GGG	01/31/18	01/31/18 19:16	180131L025

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	110	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3-5	18-01-2135-9-A	01/30/18 11:30	Solid	GC/MS GGG	01/31/18	01/31/18 21:32	180131L025

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	130	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	110	79-133	
1,2-Dichloroethane-d4	112	71-155	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4-5	18-01-2135-12-A	01/30/18 12:25	Solid	GC/MS GGG	01/31/18	01/31/18 21:59	180131L025

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	51	1.00	
n-Butylbenzene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
Carbon Disulfide	ND	51	1.00	
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.1	1.00	
4-Chlorotoluene	ND	5.1	1.00	
Dibromochloromethane	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
Isopropylbenzene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Naphthalene	ND	51	1.00	
n-Propylbenzene	ND	5.1	1.00	
Styrene	ND	5.1	1.00	
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
Trichloroethene	ND	5.1	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	109	79-133	
1,2-Dichloroethane-d4	109	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5-5	18-01-2135-15-A	01/30/18 13:53	Solid	GC/MS GGG	01/31/18	01/31/18 22:26	180131L025

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	109	79-133	
1,2-Dichloroethane-d4	112	71-155	
Toluene-d8	104	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-6-5	18-01-2135-18-A	01/30/18 14:30	Solid	GC/MS GGG	01/31/18	01/31/18 22:54	180131L025

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	130	1.00	
Benzene	ND	5.2	1.00	
Bromobenzene	ND	5.2	1.00	
Bromochloromethane	ND	5.2	1.00	
Bromodichloromethane	ND	5.2	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	52	1.00	
n-Butylbenzene	ND	5.2	1.00	
sec-Butylbenzene	ND	5.2	1.00	
tert-Butylbenzene	ND	5.2	1.00	
Carbon Disulfide	ND	52	1.00	
Carbon Tetrachloride	ND	5.2	1.00	
Chlorobenzene	ND	5.2	1.00	
Chloroethane	ND	5.2	1.00	
Chloroform	ND	5.2	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.2	1.00	
4-Chlorotoluene	ND	5.2	1.00	
Dibromochloromethane	ND	5.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
Dibromomethane	ND	5.2	1.00	
1,2-Dichlorobenzene	ND	5.2	1.00	
1,3-Dichlorobenzene	ND	5.2	1.00	
1,4-Dichlorobenzene	ND	5.2	1.00	
Dichlorodifluoromethane	ND	5.2	1.00	
1,1-Dichloroethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
1,1-Dichloroethene	ND	5.2	1.00	
c-1,2-Dichloroethene	ND	5.2	1.00	
t-1,2-Dichloroethene	ND	5.2	1.00	
1,2-Dichloropropane	ND	5.2	1.00	
1,3-Dichloropropane	ND	5.2	1.00	
2,2-Dichloropropane	ND	5.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.2	1.00	
c-1,3-Dichloropropene	ND	5.2	1.00	
t-1,3-Dichloropropene	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
2-Hexanone	ND	52	1.00	
Isopropylbenzene	ND	5.2	1.00	
p-Isopropyltoluene	ND	5.2	1.00	
Methylene Chloride	ND	52	1.00	
4-Methyl-2-Pentanone	ND	52	1.00	
Naphthalene	ND	52	1.00	
n-Propylbenzene	ND	5.2	1.00	
Styrene	ND	5.2	1.00	
1,1,1,2-Tetrachloroethane	ND	5.2	1.00	
1,1,2,2-Tetrachloroethane	ND	5.2	1.00	
Tetrachloroethene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.2	1.00	
1,1,1-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	52	1.00	
Trichloroethene	ND	5.2	1.00	
1,2,3-Trichloropropane	ND	5.2	1.00	
1,2,4-Trimethylbenzene	ND	5.2	1.00	
Trichlorofluoromethane	ND	52	1.00	
1,3,5-Trimethylbenzene	ND	5.2	1.00	
Vinyl Acetate	ND	52	1.00	
Vinyl Chloride	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	80-120	
Dibromofluoromethane	109	79-133	
1,2-Dichloroethane-d4	112	71-155	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-7-1	18-01-2135-19-A	01/30/18 15:11	Solid	GC/MS GGG	01/31/18	01/31/18 23:21	180131L025

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	130	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	93	80-120	
Dibromofluoromethane	109	79-133	
1,2-Dichloroethane-d4	113	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-13673	N/A	Solid	GC/MS GGG	01/31/18	01/31/18 18:22	180131L025

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	80-120	
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	107	71-155	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-6-5	Sample	Solid	GC 46	02/01/18	02/01/18 23:13	180201S07
B-6-5	Matrix Spike	Solid	GC 46	02/01/18	02/01/18 20:47	180201S07
B-6-5	Matrix Spike Duplicate	Solid	GC 46	02/01/18	02/01/18 21:08	180201S07

<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH Gas/Diesel	ND	400.0	296.2	74	341.3	85	60-140	14	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3050B
Method: EPA 6010B

Project: 383288

Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
B-5-5	Sample	Solid	ICP 7300	02/01/18	02/01/18 17:17	180201S01				
B-5-5	Matrix Spike	Solid	ICP 7300	02/01/18	02/01/18 17:18	180201S01				
B-5-5	Matrix Spike Duplicate	Solid	ICP 7300	02/01/18	02/01/18 17:20	180201S01				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	2.070	25.00	29.87	111	32.07	120	75-125	7	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8082

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-01-1716-37	Sample	Solid	GC 58	02/01/18	02/02/18 11:50	180201S05
18-01-1716-37	Matrix Spike	Solid	GC 58	02/01/18	02/02/18 11:14	180201S05
18-01-1716-37	Matrix Spike Duplicate	Solid	GC 58	02/01/18	02/02/18 11:32	180201S05

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	104.5	104	92.00	92	50-135	13	0-20	
Aroclor-1260	ND	100.0	118.0	118	96.50	96	50-135	20	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Spike/Spike Duplicate

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8270C

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-02-0040-2	Sample	Solid	GC/MS CCC	02/02/18	02/02/18 14:59	180202S01
18-02-0040-2	Matrix Spike	Solid	GC/MS CCC	02/02/18	02/02/18 14:02	180202S01
18-02-0040-2	Matrix Spike Duplicate	Solid	GC/MS CCC	02/02/18	02/02/18 14:20	180202S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	9.375	94	9.175	92	34-148	2	0-20	
Acenaphthylene	ND	10.00	9.047	90	8.777	88	53-120	3	0-20	
Butyl Benzyl Phthalate	ND	10.00	10.08	101	9.683	97	15-189	4	0-20	
4-Chloro-3-Methylphenol	ND	10.00	9.594	96	9.399	94	32-120	2	0-20	
2-Chlorophenol	ND	10.00	9.571	96	9.459	95	53-120	1	0-20	
1,4-Dichlorobenzene	ND	10.00	8.438	84	8.180	82	43-120	3	0-26	
Dimethyl Phthalate	0.7456	10.00	10.99	102	10.85	101	44-122	1	0-20	
2,4-Dinitrotoluene	ND	10.00	11.41	114	11.38	114	28-120	0	0-20	
Fluorene	ND	10.00	9.681	97	9.536	95	12-186	2	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	9.625	96	9.126	91	38-140	5	0-20	
Naphthalene	ND	10.00	9.030	90	8.828	88	20-140	2	0-20	
4-Nitrophenol	ND	10.00	10.08	101	9.847	98	14-128	2	0-59	
Pentachlorophenol	ND	10.00	7.737	77	8.011	80	10-124	3	0-20	
Phenol	ND	10.00	9.328	93	8.936	89	22-124	4	0-20	
Pyrene	ND	10.00	9.519	95	9.037	90	31-169	5	0-20	
1,2,4-Trichlorobenzene	ND	10.00	9.203	92	8.847	88	56-120	4	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-2-5	Sample	Solid	GC/MS GGG	01/31/18	01/31/18 19:16	180131S013
B-2-5	Matrix Spike	Solid	GC/MS GGG	01/31/18	01/31/18 19:43	180131S013
B-2-5	Matrix Spike Duplicate	Solid	GC/MS GGG	01/31/18	01/31/18 20:11	180131S013

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	46.82	94	47.87	96	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	54.72	109	56.00	112	51-135	2	0-29	
Chlorobenzene	ND	50.00	45.56	91	47.55	95	57-123	4	0-20	
1,2-Dibromoethane	ND	50.00	47.16	94	49.36	99	64-124	5	0-20	
1,2-Dichlorobenzene	ND	50.00	46.30	93	48.12	96	35-131	4	0-25	
1,2-Dichloroethane	ND	50.00	48.29	97	49.93	100	80-120	3	0-20	
1,1-Dichloroethene	ND	50.00	51.24	102	54.17	108	47-143	6	0-25	
Ethylbenzene	ND	50.00	48.37	97	50.09	100	57-129	3	0-22	
Toluene	ND	50.00	48.15	96	49.34	99	63-123	2	0-20	
Trichloroethene	ND	50.00	49.07	98	50.14	100	44-158	2	0-20	
Vinyl Chloride	ND	50.00	48.29	97	51.70	103	49-139	7	0-47	
p/m-Xylene	ND	100.0	97.44	97	100.5	100	70-130	3	0-30	
o-Xylene	ND	50.00	48.75	97	50.46	101	70-130	3	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	48.45	97	51.04	102	57-123	5	0-21	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - PDS/PDSD

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3050B
Method: EPA 6010B

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number				
B-5-5	Sample	Solid	ICP 7300	02/01/18 00:00	02/01/18 17:17	180201S01				
B-5-5	PDS	Solid	ICP 7300	02/01/18 00:00	02/02/18 11:37	180201S01				
B-5-5	PDSD	Solid	ICP 7300	02/01/18 00:00	02/02/18 11:37	180201S01				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>PDS Conc.</u>	<u>PDS %Rec.</u>	<u>PDSD Conc.</u>	<u>PDSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Arsenic	2.070	25.00	32.85	123	34.52	130	75-125	5	0-20	5

Quality Control - LCS

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-476-397	LCS	Solid	GC 46	02/01/18	02/01/18 20:27	180201B07

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH Gas/Diesel	400.0	306.4	77	70-130	

Quality Control - LCS

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3050B
Method: EPA 6010B

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-25846	LCS	Solid	ICP 7300	02/01/18	02/01/18 16:13	180201L01

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Arsenic	25.00	24.51	98	80-120	

Quality Control - LCS

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8082

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-4542	LCS	Solid	GC 58	02/01/18	02/02/18 10:56	180201L05
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	85.00	85	50-135	
Aroclor-1260		100.0	83.50	84	50-135	



Calscience

Quality Control - LCS/LCSD

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 8151A
Method: EPA 8151A

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-1542	LCS	Solid	GC 40	01/31/18	02/02/18 14:19	180131L17
095-01-033-1542	LCSD	Solid	GC 40	01/31/18	02/01/18 18:47	180131L17

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	400.0	349.0	87	342.0	86	49-127	2	0-24	
2,4,5-T	40.00	31.00	78	30.00	75	31-145	3	0-25	
2,4-DB	400.0	361.0	90	349.0	87	48-132	3	0-27	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 3545
Method: EPA 8270C

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-4104	LCS	Solid	GC/MS CCC	02/02/18	02/02/18 13:44	180202L01
Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	9.194	92	51-123	39-135	
Acenaphthylene	10.00	8.717	87	52-120	41-131	
Butyl Benzyl Phthalate	10.00	9.782	98	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	9.073	91	55-121	44-132	
2-Chlorophenol	10.00	9.366	94	58-124	47-135	
1,4-Dichlorobenzene	10.00	8.718	87	42-132	27-147	
Dimethyl Phthalate	10.00	9.859	99	51-123	39-135	
2,4-Dinitrotoluene	10.00	10.64	106	51-129	38-142	
Fluorene	10.00	9.319	93	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	9.228	92	40-136	24-152	
Naphthalene	10.00	9.305	93	32-146	13-165	
4-Nitrophenol	10.00	9.349	93	24-126	7-143	
Pentachlorophenol	10.00	7.650	76	23-131	5-149	
Phenol	10.00	8.763	88	40-130	25-145	
Pyrene	10.00	9.137	91	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	9.469	95	45-129	31-143	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass


 Return to Contents

Quality Control - LCS

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2135
Preparation: EPA 5030C
Method: EPA 8260B

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-13673	LCS	Solid	GC/MS GGG	01/31/18	01/31/18 17:00	180131L025
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene	50.00	50.65	101	80-120	73-127	
Carbon Tetrachloride	50.00	57.42	115	65-137	53-149	
Chlorobenzene	50.00	50.69	101	80-120	73-127	
1,2-Dibromoethane	50.00	52.98	106	80-120	73-127	
1,2-Dichlorobenzene	50.00	51.77	104	80-120	73-127	
1,2-Dichloroethane	50.00	53.67	107	80-120	73-127	
1,1-Dichloroethene	50.00	54.98	110	68-128	58-138	
Ethylbenzene	50.00	52.55	105	80-120	73-127	
Toluene	50.00	51.58	103	80-120	73-127	
Trichloroethene	50.00	52.57	105	80-120	73-127	
Vinyl Chloride	50.00	51.46	103	67-127	57-137	
p/m-Xylene	100.0	106.3	106	75-125	67-133	
o-Xylene	50.00	54.05	108	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	53.85	108	70-124	61-133	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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Sample Analysis Summary Report

Work Order: 18-01-2135

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<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 8015B (M)	EPA 3550B	682	GC 46	1
EPA 8082	EPA 3545	1028	GC 58	1
EPA 8151A	EPA 8151A	669	GC 40	1
EPA 8260B	EPA 5030C	1126	GC/MS GGG	2
EPA 8270C	EPA 3545	923	GC/MS CCC	1


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

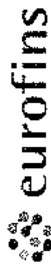
Work Order: 18-01-2135

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<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92641-1427 • (714) 895-5434
For courier service / sample drop off information, contact us at sales@eurofins.com or call us.

CHAIN OF CUSTODY RECORD

DATE: 1/30/18
PAGE: 1 OF 3

NO. 87 LAB USE ONLY

18-01-2135

CLIENT PROJECT NAME / NUMBER:

383288

P.O. NO.:

PROJECT CONTACT:

KENT VALLMER

SAMPLER(S) (PRINT)

DASH GUYER

ADDRESS:

2204 W 190th St

CITY:

TORRANCE

STATE:

CA

ZIP:

90504

TEL:

310-798-4255

E-MAIL:

dguyer@aeciconsultants.com

TURNAROUND TIME (Rush surcharges may apply to any FAT not STANDARD)

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF ☐ GLOBAL ID:

LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Field Filtered			REQUESTED ANALYSES									
		DATE	TIME			Unpreserved	Preserved	Field Filtered	TPH - extended range 8015M	VOCs 8260B	PCBs 8082	SVOCs 8270	Herbicides 8151	Arsenic 6010B	HOLD			
1	B-1-1	1/30/18	0948	5016	7	X	X								X			
2	B-1-2.5		0950			X	X								X			
3	B-1-5		1010			X	X											
4	B-2-1		1023			X	X											
5	B-2-2.5		1028			X	X											
6	B-2-5		1035			X	X											
7	B-3-1		1100			X	X								X			
8	B-3-2.5		1110			X	X								X			
9	B-3-5		1130			X	X											
10	B-4-1		1200			X	X								X			

Relinquished by: (Signature)

Received by: (Signature/Affiliation)

Date:

Time:

Relinquished by: (Signature)

Received by: (Signature/Affiliation)

Date:

Time:

Relinquished by: (Signature)

Received by: (Signature/Affiliation)

Date:

Time:

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1CLIENT: AEIDATE: 01/31/2018

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): 3.0 °C (w/ CF): 3.2 °C; ☐ Blank ☒ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling☐ Sample(s) received at ambient temperature; placed on ice for transport by courierAmbient Temperature: ☐ Air ☐ FilterChecked by: 836

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/AChecked by: 836Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/AChecked by: 836

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples ☒ Yes ☐ No ☐ N/ACOC document(s) received complete ☒ Yes ☒ No ☐ N/A☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers☒ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished timeSampler's name indicated on COC ☒ Yes ☐ No ☐ N/ASample container label(s) consistent with COC ☒ Yes ☐ No ☐ N/ASample container(s) intact and in good condition ☒ Yes ☐ No ☐ N/AProper containers for analyses requested ☒ Yes ☐ No ☐ N/ASufficient volume/mass for analyses requested ☒ Yes ☐ No ☐ N/ASamples received within holding time ☒ Yes ☐ No ☐ N/A

Aqueous samples for certain analyses received within 15-minute holding time

☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen ☐ Yes ☐ No ☒ N/AProper preservation chemical(s) noted on COC and/or sample container ☐ Yes ☐ No ☒ N/A

Unpreserved aqueous sample(s) received for certain analyses

☐ Volatile Organics ☐ Total Metals ☐ Dissolved MetalsAcid/base preserved samples - pH within acceptable range ☐ Yes ☐ No ☒ N/AContainer(s) for certain analysis free of headspace ☐ Yes ☐ No ☒ N/A☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)Tedlar™ bag(s) free of condensation ☐ Yes ☐ No ☒ N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA_h ☐ VOA_{na2} ☐ 100PJ ☐ 100PJ_{na2} ☐ 125AGB ☐ 125AGB_h ☐ 125AGB_p ☐ 125PB ☐ 125PB_{znna} (pH__9)☐ 250AGB ☐ 250CGB ☐ 250CGB_s (pH__2) ☐ 250PB ☐ 250PB_n (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ_s (pH__2) ☐ 500PB☐ 1AGB ☐ 1AGB_{na2} ☐ 1AGB_s (pH__2) ☐ 1AGB_s (O&G) ☐ 1PB ☐ 1PB_{na} (pH__12) ☐ _____ ☐ _____ ☐ _____Solid: ☒ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® (____) ☐ TerraCores® (____) ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ Other Matrix (____): ☐ _____ ☐ _____ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 836s = H₂SO₄, u = ultra-pure, x = Na₂SO₃+NaHSO₄.H₂O, znna = Zn (CH₃CO₂)₂ + NaOHReviewed by: 836

**WORK ORDER NUMBER: 18-01-2136***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For**Client:** AEI Consultants**Client Project Name:** 383288**Attention:** Kent Vollmer
2207 West 190th Street
Torrance, CA 90504-6001

A handwritten signature in black ink, appearing to read "L. Thompson".

Approved for release on 02/05/2018 by:
Lori Thompson
Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: 383288
 Work Order Number: 18-01-2136

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Work Order Narrative

Work Order: 18-01-2136Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/31/18. They were assigned to Work Order 18-01-2136.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Sample Summary

Client: AEI Consultants	Work Order:	18-01-2136
2207 West 190th Street	Project Name:	383288
Torrance, CA 90504-6001	PO Number:	152277
	Date/Time Received:	01/31/18 12:05
	Number of Containers:	3

Attn: Kent Vollmer

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-1	18-01-2136-1	01/30/18 15:40	1	Air
B-3	18-01-2136-2	01/30/18 15:55	1	Air
B-4	18-01-2136-3	01/30/18 16:10	1	Air

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1	18-01-2136-1-A	01/30/18 15:40	Air	GC/MS OOO	N/A	02/02/18 01:19	180201L01

Parameter	Result	RL	DF	Qualifiers
1,2,4-Trichlorobenzene	ND	15	1.00	
Acetone	150	4.8	1.00	
Benzene	26	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	24	4.4	1.00	
n-Butylbenzene	ND	2.7	1.00	
sec-Butylbenzene	ND	2.7	1.00	
tert-Butylbenzene	ND	2.7	1.00	
Carbon Disulfide	66	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	55	3.0	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,1-Difluoroethane	ND	5.4	1.00	
Ethylbenzene	21	2.2	1.00	
4-Ethyltoluene	6.4	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Isopropanol	29	12	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	27	6.1	1.00	
Styrene	ND	6.4	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	130	1.9	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,2,4-Trimethylbenzene	18	7.4	1.00	
1,3,5-Trimethylbenzene	7.1	2.5	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
o-Xylene	20	2.2	1.00	
p/m-Xylene	72	8.7	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	68-134		
1,2-Dichloroethane-d4	99	67-133		
Toluene-d8	99	70-130		

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3	18-01-2136-2-A	01/30/18 15:55	Air	GC/MS OOO	N/A	02/02/18 03:02	180201L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,2,4-Trichlorobenzene	ND	15	1.00	
Acetone	79	4.8	1.00	
Benzene	2.0	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	16	4.4	1.00	
n-Butylbenzene	ND	2.7	1.00	
sec-Butylbenzene	ND	2.7	1.00	
tert-Butylbenzene	ND	2.7	1.00	
Carbon Disulfide	14	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	4.5	3.0	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,1-Difluoroethane	ND	5.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Isopropanol	15	12	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	16	6.1	1.00	
Styrene	ND	6.4	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
Tetrachloroethene	35	3.4	1.00	
Toluene	3.4	1.9	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	100	68-134		
1,2-Dichloroethane-d4	99	67-133		
Toluene-d8	96	70-130		



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4	18-01-2136-3-A	01/30/18 16:10	Air	GC/MS OOO	N/A	02/02/18 04:06	180201L01

Parameter	Result	RL	DF	Qualifiers
1,2,4-Trichlorobenzene	ND	15	1.00	
Acetone	59	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	9.7	4.4	1.00	
n-Butylbenzene	ND	2.7	1.00	
sec-Butylbenzene	ND	2.7	1.00	
tert-Butylbenzene	ND	2.7	1.00	
Carbon Disulfide	14	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	3.6	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,1-Difluoroethane	ND	5.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Isopropanol	ND	12	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Styrene	ND	6.4	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
Tetrachloroethene	8.8	3.4	1.00	
Toluene	2.4	1.9	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	100	68-134		
1,2-Dichloroethane-d4	100	67-133		
Toluene-d8	99	70-130		



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-19686	N/A	Air	GC/MS OOO	N/A	02/01/18 15:39	180201L01

Parameter	Result	RL	DF	Qualifiers
1,2,4-Trichlorobenzene	ND	15	1.00	
Acetone	ND	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
n-Butylbenzene	ND	2.7	1.00	
sec-Butylbenzene	ND	2.7	1.00	
tert-Butylbenzene	ND	2.7	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,1-Difluoroethane	ND	5.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 383288

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Isopropanol	ND	12	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Styrene	ND	6.4	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	90	68-134		
1,2-Dichloroethane-d4	99	67-133		
Toluene-d8	96	70-130		



Calscience

Quality Control - LCS/LCSD

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15

Project: 383288

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-19686	LCS	Air	GC/MS OOO	N/A	02/01/18 12:37	180201L01
095-01-021-19686	LCSD	Air	GC/MS OOO	N/A	02/01/18 13:30	180201L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
1,2,4-Trichlorobenzene	185.5	229.6	124	237.0	128	31-151	11-171	3	0-30	
Acetone	59.39	61.99	104	62.68	106	67-133	56-144	1	0-30	
Benzene	79.87	84.29	106	84.98	106	70-130	60-140	1	0-30	
Benzyl Chloride	129.4	151.8	117	154.6	119	38-158	18-178	2	0-30	
Bromodichloromethane	167.5	179.2	107	180.5	108	70-130	60-140	1	0-30	
Bromoform	258.4	294.3	114	295.4	114	63-147	49-161	0	0-30	
Bromomethane	97.08	99.88	103	100.6	104	70-139	58-150	1	0-30	
2-Butanone	73.73	79.09	107	79.88	108	66-132	55-143	1	0-30	
n-Butylbenzene	137.2	154.6	113	157.3	115	50-150	33-167	2	0-30	
sec-Butylbenzene	137.2	148.3	108	150.7	110	50-150	33-167	2	0-30	
tert-Butylbenzene	137.2	150.8	110	153.7	112	50-150	33-167	2	0-30	
Carbon Disulfide	77.85	81.88	105	82.28	106	68-146	55-159	0	0-30	
Carbon Tetrachloride	157.3	168.8	107	169.2	108	70-136	59-147	0	0-30	
Chlorobenzene	115.1	127.1	110	128.6	112	70-130	60-140	1	0-30	
Chloroethane	65.96	69.66	106	70.27	107	65-149	51-163	1	0-30	
Chloroform	122.1	128.4	105	129.1	106	70-130	60-140	1	0-30	
Chloromethane	51.63	56.05	109	55.57	108	69-141	57-153	1	0-30	
Dibromochloromethane	213.0	237.3	111	239.4	112	70-138	59-149	1	0-30	
1,2-Dibromoethane	192.1	216.3	113	218.1	114	70-133	60-144	1	0-30	
1,2-Dichlorobenzene	150.3	173.9	116	175.5	117	48-138	33-153	1	0-30	
1,3-Dichlorobenzene	150.3	173.1	115	175.0	116	56-134	43-147	1	0-30	
1,4-Dichlorobenzene	150.3	168.5	112	169.5	113	52-136	38-150	1	0-30	
Dichlorodifluoromethane	123.6	132.7	107	133.5	108	67-139	55-151	1	0-30	
1,1-Dichloroethane	101.2	107.3	106	107.1	106	70-130	60-140	0	0-30	
1,2-Dichloroethane	101.2	108.5	107	108.9	108	70-132	60-142	0	0-30	
1,1-Dichloroethene	99.12	105.3	106	104.8	106	70-135	59-146	0	0-30	
c-1,2-Dichloroethene	99.12	106.8	108	107.4	108	70-130	60-140	1	0-30	
t-1,2-Dichloroethene	99.12	106.9	108	107.3	108	70-130	60-140	0	0-30	
1,2-Dichloropropane	115.5	121.7	105	123.6	107	70-130	60-140	2	0-30	
c-1,3-Dichloropropene	113.5	130.2	115	132.4	117	70-130	60-140	2	0-30	
t-1,3-Dichloropropene	113.5	134.6	119	135.4	119	70-147	57-160	1	0-30	
Dichlorotetrafluoroethane	174.8	190.2	109	190.7	109	51-135	37-149	0	0-30	
1,1-Difluoroethane	67.54	69.29	103	68.71	102	70-131	60-141	1	0-30	
Ethylbenzene	108.6	123.8	114	125.1	115	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	141.3	115	143.2	117	68-130	58-140	1	0-30	
Hexachloro-1,3-Butadiene	266.6	316.9	119	325.6	122	44-146	27-163	3	0-30	

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS/LCSD

AEI Consultants
2207 West 190th Street
Torrance, CA 90504-6001

Date Received: 01/31/18
Work Order: 18-01-2136
Preparation: N/A
Method: EPA TO-15

Project: 383288

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Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
2-Hexanone	102.4	116.3	114	118.7	116	70-136	59-147	2	0-30	
Isopropanol	61.45	66.37	108	89.52	146	57-135	44-148	30	0-30	ME
Methyl-t-Butyl Ether (MTBE)	90.13	96.13	107	96.85	107	68-130	58-140	1	0-30	
Methylene Chloride	86.84	93.92	108	92.75	107	69-130	59-140	1	0-30	
4-Methyl-2-Pentanone	102.4	112.8	110	114.0	111	70-130	60-140	1	0-30	
Styrene	106.5	119.1	112	120.7	113	65-131	54-142	1	0-30	
1,1,2,2-Tetrachloroethane	171.6	186.1	108	188.3	110	63-130	52-141	1	0-30	
Tetrachloroethene	169.6	189.1	112	190.1	112	70-130	60-140	1	0-30	
Toluene	94.21	102.6	109	103.9	110	70-130	60-140	1	0-30	
1,1,1-Trichloroethane	136.4	146.3	107	147.4	108	70-130	60-140	1	0-30	
1,1,2-Trichloroethane	136.4	146.7	108	148.4	109	70-130	60-140	1	0-30	
Trichloroethene	134.3	145.0	108	146.5	109	70-130	60-140	1	0-30	
Trichlorofluoromethane	140.5	147.7	105	148.2	106	63-141	50-154	0	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	203.6	106	203.6	106	70-136	59-147	0	0-30	
1,2,4-Trimethylbenzene	122.9	137.7	112	139.5	113	60-132	48-144	1	0-30	
1,3,5-Trimethylbenzene	122.9	139.4	113	141.5	115	62-130	51-141	1	0-30	
Vinyl Acetate	88.03	94.47	107	93.79	107	58-130	46-142	1	0-30	
Vinyl Chloride	63.91	68.94	108	68.58	107	70-134	59-145	1	0-30	
o-Xylene	108.6	118.3	109	119.5	110	69-130	59-140	1	0-30	
p/m-Xylene	217.1	240.5	111	244.6	113	70-132	60-142	2	0-30	

Total number of LCS compounds: 56

Total number of ME compounds: 1

Total number of ME compounds allowed: 3

LCS ME CL validation result: Pass

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Calscience

Summa Canister Vacuum Summary

Work Order: 18-01-2136

Page 1 of 1

Sample Name	Vacuum Out	Vacuum In	Equipment	Description
B-1	-29.90 in Hg	-2.20 in Hg	LC707	Summa Canister 1L
B-3	-29.90 in Hg	-2.40 in Hg	SLC057	Summa Canister 1L
B-4	-29.90 in Hg	-4.20 in Hg	LC338	Summa Canister 1L


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Sample Analysis Summary Report

Work Order: 18-01-2136

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA TO-15	N/A	953	GC/MS 000	2


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Glossary of Terms and Qualifiers

Work Order: 18-01-2136

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

SAMPLE RECEIPT CHECKLIST

COOLER 0 OF 0

CLIENT: AEI

DATE: 01/31/2018
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: +0.2°C); Temperature (w/o CF): _____°C (w/ CF): _____°C; ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☒ Air ☐ Filter

Checked by: JSK
CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☐ Not Present ☒ N/A

Checked by: JSK

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A

Checked by: JSK
SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples ☒ Yes ☐ No ☐ N/A

COC document(s) received complete ☒ Yes ☐ No ☐ N/A

☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers

☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time

Sampler's name indicated on COC ☒ Yes ☐ No ☐ N/A

Sample container label(s) consistent with COC ☒ Yes ☐ No ☐ N/A

Sample container(s) intact and in good condition ☒ Yes ☐ No ☐ N/A

Proper containers for analyses requested ☒ Yes ☐ No ☐ N/A

Sufficient volume/mass for analyses requested ☒ Yes ☐ No ☐ N/A

Samples received within holding time ☒ Yes ☐ No ☐ N/A

Aqueous samples for certain analyses received within 15-minute holding time

☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen ☐ Yes ☐ No ☒ N/A

Proper preservation chemical(s) noted on COC and/or sample container ☐ Yes ☐ No ☒ N/A

Unpreserved aqueous sample(s) received for certain analyses

☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals

Acid/base preserved samples - pH within acceptable range ☐ Yes ☐ No ☒ N/A

Container(s) for certain analysis free of headspace ☐ Yes ☐ No ☒ N/A

☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)

☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation ☐ Yes ☐ No ☒ N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA_h ☐ VOA_{na2} ☐ 100PJ ☐ 100PJ_{na2} ☐ 125AGB ☐ 125AGB_h ☐ 125AGB_p ☐ 125PB ☐ 125PB_{znna} (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB_s (pH__2) ☐ 250PB ☐ 250PB_n (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ_s (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB_{na2} ☐ 1AGB_s (pH__2) ☐ 1AGB_s (O&G) ☐ 1PB ☐ 1PB_{na} (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☒ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® (____) ☐ TerraCores® (____) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☒ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ Other Matrix (____): ☐ _____ ☐ _____ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: JSK

s = H₂SO₄, u = ultra-pure, x = Na₂SO₃+NaHSO₄.H₂O, znna = Zn (CH₃CO₂)₂ + NaOH

Reviewed by: JSK