



Limited Subsurface Investigation Report

REPORT DATE: June 6, 2024

SITE INFORMATION

1622 Old Arcata Road
Arcata, California 95524

PROJECT INFORMATION

AEI Project No. 488291

PREPARED FOR

Danco Communities
5251 Ericson Way, Suite A
Arcata, California 95521

PREPARED BY

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June 6, 2024

McKenzie Dibble
Danco Communities
5251 Ericson Way, Suite A
Arcata, California 95521

Subject: Limited Subsurface Investigation
1622 Old Arcata Road
Arcata, California 95524
AEI Project No. 488291

Dear McKenzie Dibble,

This report presents the results of the Limited Subsurface Investigation conducted by AEI Consultants (AEI) at 1622 Old Arcata Road, Arcata, California (the Site). The general purpose of this investigation was to further characterize the Site for petroleum hydrocarbons, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). The investigation was performed in general accordance with the scope of services outlined in our proposal dated January 30, 2024 (AEI Proposal Number 96434), which was subsequently authorized on January 30, 2024.

AEI appreciates the opportunity to support this important project. If you have any questions, please do not hesitate to contact me.

Sincerely,

Daniel Monroe
Business Development Manager
408.614.4123
djmonroe@aeiconsultants.com

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1.0 PURPOSE

This report presents the results of the Limited Subsurface Investigation performed by AEI Consultants (AEI) at 1622 Old Arcata Road, Arcata, California (“the Site”). The investigation was conducted in general accordance with the scope of work presented in AEI’s proposal number 94634 dated January 30, 2024, authorized by the Client on January 30, 2024.

The general purpose of this investigation was to further characterize the Site for petroleum hydrocarbons, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). The Site descriptions, background, investigation procedures, findings, summary, and conclusions are presented in the following sections.

2.0 SITE DESCRIPTION AND BACKGROUND

Details on the Site description and background are presented below as referenced in FES’s January 4, 2024, Phase I ESA.

2.1 Site Description

The Site is located on the northeast side of Old Arcata Road in Arcata, California. The Site consists of approximately 1.68 acres of land that is improved with four one-story buildings. The remainder of the Site is improved with an asphalt parking lot at the southwest end.

The Site appeared to have a topographic gradient toward the west and is situated at an elevation approximately 60 feet above mean sea level at the eastern boundary, and 30 feet above mean sea level in the western boundary. Groundwater flow direction beneath the Site is inferred to follow the topographic gradient, and flow to the west. The Site location is shown on Figure 1 – Topographic Map.

Refer to Section 4.1 below for additional information on the Site subsurface conditions encountered during drilling.

2.2 Background

Based on the review of the Phase I ESA reported dated January 4, 2024, the following was identified:

- A former gasoline station was identified at the Site. Gasoline and diesel underground storage tanks (USTs) and a third, likely heating oil UST, were discovered during the tank removal on July 11, 2000. The LUST case for the Site was closed on March 25, 2005, utilizing commercial/industrial standard. However, no soil gas samples were collected at the Site prior to or following the UST remedial excavation activities in order to evaluate a potential risk for vapor intrusion at the Site, which was considered a recognized environmental condition (REC).

- There is a metals case for the Site that remains open. Lead concentrations exceeding the current residential screening level of 80 mg/kg were detected in 59 soil samples collected within the yard area at the Site. At least two soil samples collected at approximately 5 feet bgs contained lead at concentrations ranging from 180 mg/kg to 390 mg/kg. The concentrations of lead in soil exceeding the residential screening level are considered a REC. Copper, lead, zinc, and cadmium concentrations were also found above preliminary remediation goals within the upper foot of soil at the Site. A lead/metal-impacted soil excavation Work Plan was developed by LACO Associates (LACO) on May 25, 2005, and accepted by the North Coast Regional Water Quality Control Board (Water Board) on June 1, 2005. According to the GeoTracker document dated July 18, 2018, the Water Board has required that the Site owner conduct the remediation prior to any development.

Based upon a review of the California State Water Resources Control Board's GeoTracker website, additional sampling nor the Work Plan have not been implemented at the Site.

3.0 FIELD INVESTIGATION AND OBSERVATIONS

The initial investigation was designed to include eight (8) borings at the Site to collect soil and soil vapor samples; however, after encountering very shallow groundwater in the first two borings the scope of work was modified. The investigation was modified to include advancement advancing seven (7) borings at the Site to collect soil and groundwater samples. The boring/sample locations are shown on Figure 2 – Sample Location Map. The completed Site activities are summarized below.

3.1 Health and Safety Plan

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

3.2 Permitting and Utility Clearance

A drilling permit was obtained from Humboldt County Department of Health and Human Services (HCDHHS). A copy of the drilling permit is included in Appendix A.

The public underground utility locator USA North 811 was notified who, in turn, notified subscribing utility companies of the planned investigation work for underground utility locations to be marked along the ground surface around the Site boundaries and proposed boring locations, where accessible. Private utility locating was conducted by Foresite Engineering Surveys, Inc. of Pleasant Hill, CA under subcontract to AEI to further identify and locate underground utilities on the Site, and to shift boring locations, as appropriate.

3.3 Drilling and Soil Sample Collection

On April 23, 2024, seven exploratory borings (SB-1 through SB-7) were advanced at the Site at the locations shown on Figure 2. The borings were advanced by Enprobe of Oroville, California

using a direct push (DP) truck mounted drill rig in borings SB-1 and SB-2, and hand auger tools in borings SB-3 through SB-7 to collect soil and groundwater samples. The locations of the borings are listed below:

- Boring S-1 was advanced to a total depth of seven feet bgs using the DP drilling method on the west side of a former auto repair building in the northwestern portion of the Site;
- Boring SB-2 was advanced to a total depth of eight feet bgs using the DP drilling method on the southwest side of a former auto repair building in the northwestern portion of the Site;
- Boring SB-3 was advanced to a total depth of 5.5 feet bgs using hand auger tools on the northeast portion of the Site;
- Boring SB-4 was advanced to a total depth of 5 feet bgs using hand auger tools on the southeast portion of the Site;
- Boring SB-5 was advanced to a total depth of 6 feet bgs using hand auger tools on the east side of a former car crusher foundation in the north-central portion of the Site;
- Boring SB-6 was advanced to a total depth of 6 feet bgs using hand auger tools on the west side of a former car crusher foundation in the north-central portion of the; and
- Boring SB-7 was advanced to a total depth of 6 feet bgs using hand auger tools on the east side of a former auto repair building in the northwestern portion of the Site.

The soil core collected from each soil was evaluated for the purposes of lithologic logging and laboratory analyses. The soil samples from borings SB-1 and SB-2 were obtained using a single-walled coring system with approximately 2.25 inches in diameter and 4 feet in length containing plastic liners. The coring system was connected to 1.25-inch diameter, flush-jointed drill rod that was hydraulically driven (pushed) by the rig to each target sample depth. Upon retrieval from each sample depth interval, the coring system was opened, and the liners were removed and cut for visual inspection and lithologic logging purposes. Due to the ground at the site being too water saturated to move the truck mounted rig to the planned boring locations SB-3 through SB-7, samples were obtained via hand-auger cuttings and collected in clean laboratory-supplied sampling jars. Recovered soil samples were examined for soil classification and described on detailed boring log in general conformance with the Unified Soil Classification System. The boring logs are presented in Appendix B.

Select soil samples were collected for potential laboratory analysis from the depth interval representing the highest likelihood for impacts based on the observed field geology and the first indications of moisture. Samples not used for lithologic field tests are transferred from the plastic liners and placed into clean laboratory-supplied containers. After sealing, each sample was appropriately labeled and entered on the chain-of-custody documentation and placed into an insulated shipping container with ice for transportation to a State of California-certified laboratory for analysis.

- Sample SB-5-1' was collected at 1 feet bgs, adjacent to and below the foundation of a former car crusher area; and

- Sample SB-5-2.5' was collected at 2.5 feet bgs, adjacent to and below the foundation of a former car crusher area.

3.4 Groundwater Sample Collection

On April 23, 2024, after reaching depth of seven and eight feet bgs in borings SB-1 and SB-2, respectively, a temporary groundwater monitoring well was installed in each of the boring locations to facilitate collection of a groundwater sample. The temporary well materials consisted of one-inch diameter, polyvinyl chloride (PVC), 0.010-slot well screen and casing that was installed in the borehole to facilitate groundwater infiltration and groundwater sample collection from the borings. The temporary well materials remained in-place to allow groundwater infiltration for sample collection. During this time, sufficient amount of groundwater did infiltrate in each of the temporary wells to allow for groundwater sample collection.

Prior to the collection of groundwater from the specified locations, approximately one quart of water was purged from each temporary well utilizing a peristaltic pump with disposable tubing. After purging, a groundwater sample was collected in laboratory-supplied containers with preservatives, as appropriate.

Grab-groundwater samples were collected using a bailer in borings SB-3 through SB-7. A dedicated disposable bailer was used at each boring to ensure no cross contamination occurred. The borings were allowed to equilibrate for approximately 30 minutes to 2 hours to allow groundwater infiltration for sample collection.

After sealing, each sample was appropriately labeled and recorded on chain-of-custody documentation in preparation for transfer to a State of California-certified laboratory for analysis and placed into an insulated shipping container with ice.

3.5 Boring Abandonment

Following completion of field activities, removal of well construction material, and tooling, the boring locations were backfilled with neat cement in borings SB-1 and SB-2. Borings SB-3 through SB-7 were backfilled with soil cuttings.

3.6 Decontamination Procedures

AEI personnel wore disposable Nitrile gloves during sample collection, changing gloves between sample locations. Down-hole equipment including sampling tubes, samplers, and hand tools were decontaminated prior to drilling each boring or were dedicated to a single boring.

3.7 Laboratory Analyses

The soil and groundwater samples were labeled and placed into insulated coolers containing ice then transferred under appropriate chain-of-custody documentation to McCampbell Analytical, Inc of Pittsburg, California.

Two soil samples were collected and analyzed for total petroleum hydrocarbons (TPH-multi) using United States Environmental Protection Agency (US EPA) Method 8015/8021, and Polychlorinated biphenyls (PCBs) using US EPA Testing Method 8082. Seven groundwater samples collected were analyzed for TPH-multi using US EPA Method 8015B and volatile organic compounds (VOCs) using US EPA Method 8260.

No further analyses were conducted as part of this investigation. Laboratory analytical reports with chain-of-custody documentation are provided in Appendix C.

4.0 FINDINGS

The findings of this investigation are summarized below.

4.1 Subsurface Conditions

Subsurface conditions observed during the drilling activities of borings SB-1 through SB-7 indicated that soils underlying the Site consisted primarily of clay and silty clay to a depth of eight feet, the maximum depth explored as part of this investigation. Refusal was not encountered during drilling activities. Groundwater was encountered during drilling of borings SB-1 through SB-7 at approximately three to five feet bgs. After approximately two hours, the groundwater equilibrated between the depths of 3 to 5 feet bgs.

Discolored soil with a petroleum odor was observed in boring SB-1 at a depth of approximately 2 feet bgs.

4.2 Analytical Results

For the purpose of providing context to the data obtained during this investigation, soil and groundwater analytical results are compared to available regulatory screening levels. The San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs), Revision 2, revised July 2019, were used for comparison values. Groundwater analytical results were also compared to ESL maximum contaminant levels (MCLs). For this investigation, it is assumed that the Site will be repurposed for residential use and therefore, the soil and groundwater analytical results were compared to the ESLs assuming direct contact (inhalation, ingestion and/or dermal contact) under a Residential use scenario. Additional evaluation may be necessary at sites where a chemical is present at concentrations above the corresponding ESL.

Laboratory analytical reports with chain-of-custody documentation are presented in Appendix C.

4.2.1 Soil Sample Analytical Results

Table 1 presents a summary of the soil sample analytical results and comparison screening levels. Two soil samples from boring SB-5 were collected and analyzed for petroleum hydrocarbons and PCBs. The analytical results can be summarized as follows:

- TPH-g was detected in soil sample SB-5-1' at a concentration of 1.0 milligram per kilogram (mg/kg). The detected concentration is well below the residential ESL of 430 mg/kg. TPH-g was not detected in soil sample SB-5-2.5' at a concentration above its respective laboratory method detection limit (MDL).
- TPH-d was not detected in soil samples SB-5-1' and SB-5-2.5' above its respective laboratory MDL.
- TPH-mo was detected in soil sample SB-5-1' at a concentration of 300 mg/kg. The detected concentration is well below the residential ESL of 12,000 mg/kg. TPH-mo was not detected in soil sample SB-5-2.5' at a concentration above its respective laboratory method detection limit (MDL).
- PCBs were not detected in the two soil samples, SB-5-1' and SB-5-2.5', at or above their respective laboratory MDLs.

4.2.2 Groundwater Sample Analytical Results

Table 2 presents a summary of the groundwater sample results and comparison screening levels. The analytical results can be summarized as follows:

- TPH-g was detected in one of the seven groundwater samples collected and analyzed, SB-1-W at a concentration of 4,700 micrograms per liter ($\mu\text{g/L}$). The detected concentration is above the MCL Priority of 760 $\mu\text{g/L}$.
- TPH-d was detected in three of the seven groundwater samples, SB-1-W, SB-2-W, and SB-5-W, at concentrations of 1,500, 2,200, and 1,200 $\mu\text{g/L}$, respectively. The detected concentrations are above the MCL Priority of 200 $\mu\text{g/L}$.
- TPH-mo was detected in two of the seven groundwater samples, SB-1-W, and SB-2-W, at concentrations of 2,600, and 15,000 $\mu\text{g/L}$, respectively. There are no comparison values established for the residential ESL or MCL Priority for TPH-mo.
- Benzene was detected in one of the seven groundwater samples, SB-1-W at a concentration of 2.2 $\mu\text{g/L}$. The detected concentration is slightly above the MCL Priority of 1.0 $\mu\text{g/L}$ and the residential ESL of 0.42 $\mu\text{g/L}$.
- Ethylbenzene was detected in the ground water sample SB-1-W at a concentration of 76 $\mu\text{g/L}$. The detected concentration is above the MCL Priority of 30 $\mu\text{g/L}$ and the residential ESL of 3.5 $\mu\text{g/L}$.
- Other VOCs were detected in the groundwater samples as shown in Table 2.

Although some of the detected residual petroleum hydrocarbon concentrations are above their respective MCLs, they are each below the Groundwater-Specific Criteria outlined in the California State Water Resources Control Board's *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP) and are generally consistent with the known impacts related to the closed LUST case.

5.0 SUMMARY AND CONCLUSIONS

AEI completed a limited subsurface investigation at the Site to assess the current conditions and former auto repair and car crushing operations identified as RECs. Investigation efforts include advancement of seven (7) borings at the Site to collect soil and groundwater samples. The investigation results can be summarized as follows:

- Two soil samples were collected near the former car crusher to assess for associated impacts. PCBs were not detected in the two soil samples collected from SB-5. TPHd was detected in the groundwater sample collected near the former car crusher at a concentration of 1,200 µg/L. No VOCs were detected in the groundwater sample. Therefore, it does not appear that there are significant residual impacts associated with the former car crusher operations.
- A total of seven groundwater samples were collected to assess residual impacts from the former USTs and whether chlorinated solvents are present from former auto repair. No chlorinated solvents were detected in the groundwater samples collected and analyzed. Residual petroleum hydrocarbons were detected in the groundwater samples SB-1, SB-2, SB-5, and SB-7 and were generally consistent with the known impacts related to the closed LUST case.

The investigation activities performed did not identify additional concerns at the Site, including residual PCBs and/or VOCs. The historical known environmental concerns remain including residual petroleum hydrocarbons and metals. The removal of metals impacted soils is outlined in the North Coast Regional Water Quality Control Board approved May 25, 2005, *Metals Excavation Workplan*. The potential of encountering residually petroleum hydrocarbon impacted will be managed through a Soil Management Contingency Plan as outlined in the LUST Closure Summary.

6.0 REFERENCES

AEI, 2024, *Peer Review, 1622 Old Arcata Road, Bayside, California 95524*, (AEI Project No. 488291), dated January 24.

Freshwater Environmental Services, 2024, *Phase I Environmental Site Assessment, 1622 Old Arcata Road, Bayside, California 95524*, dated January 4.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2019, *User's Guide: Derivation and Application of Environmental Screening Levels (ESLs)*, Revision 2, July.

7.0 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 course of 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 Danco Communities. Both verbal and written, whether in draft or final, are for the benefit of Danco Communities. 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 Danco Communities. 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.

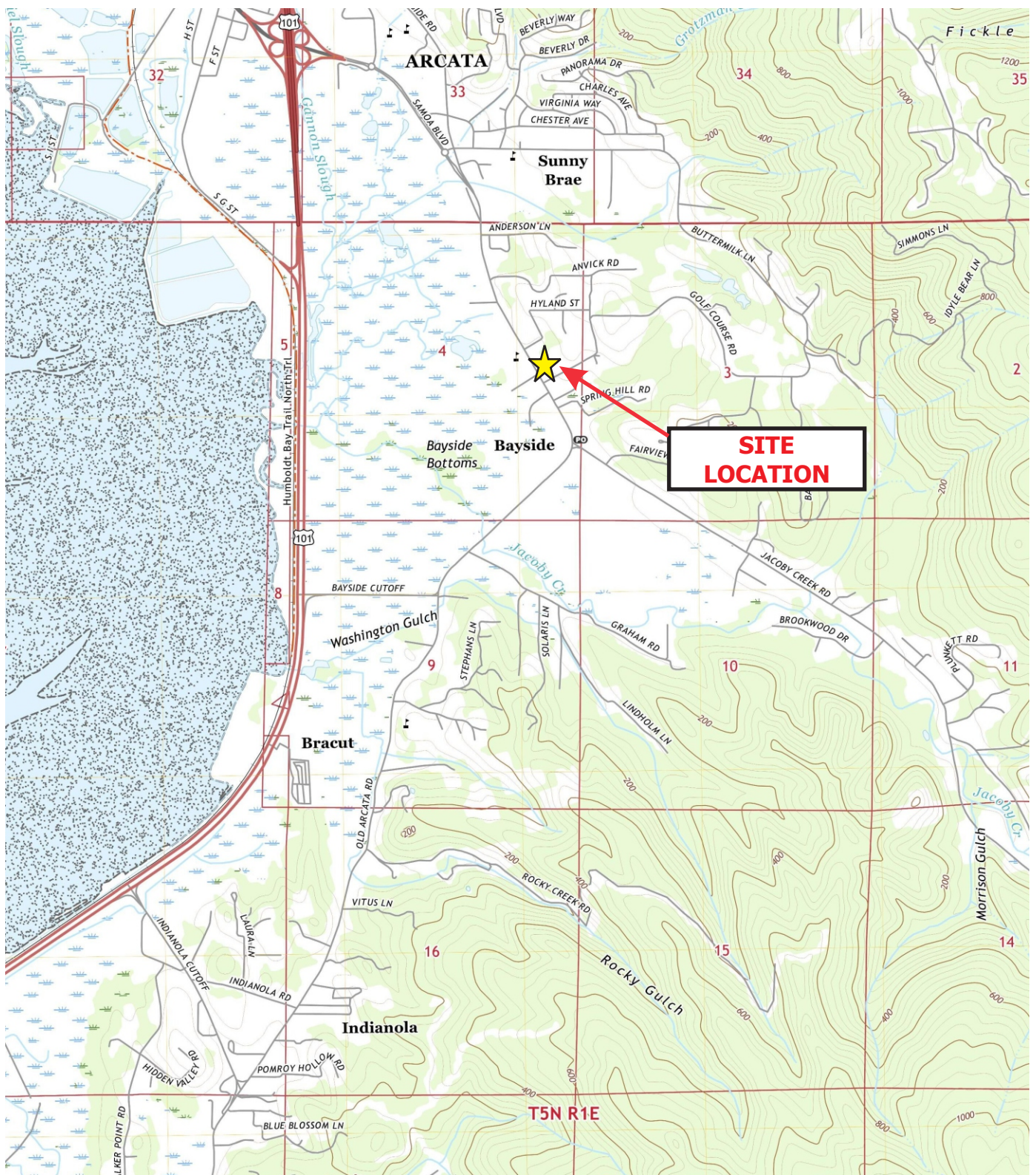
8.0 SIGNATURES

This document was prepared by, or under the direction of, the undersigned.


Trent A. Weise, P.E. C64480
Vice President



FIGURES



LEGEND



Approximate Site Boundary

Source: USGS

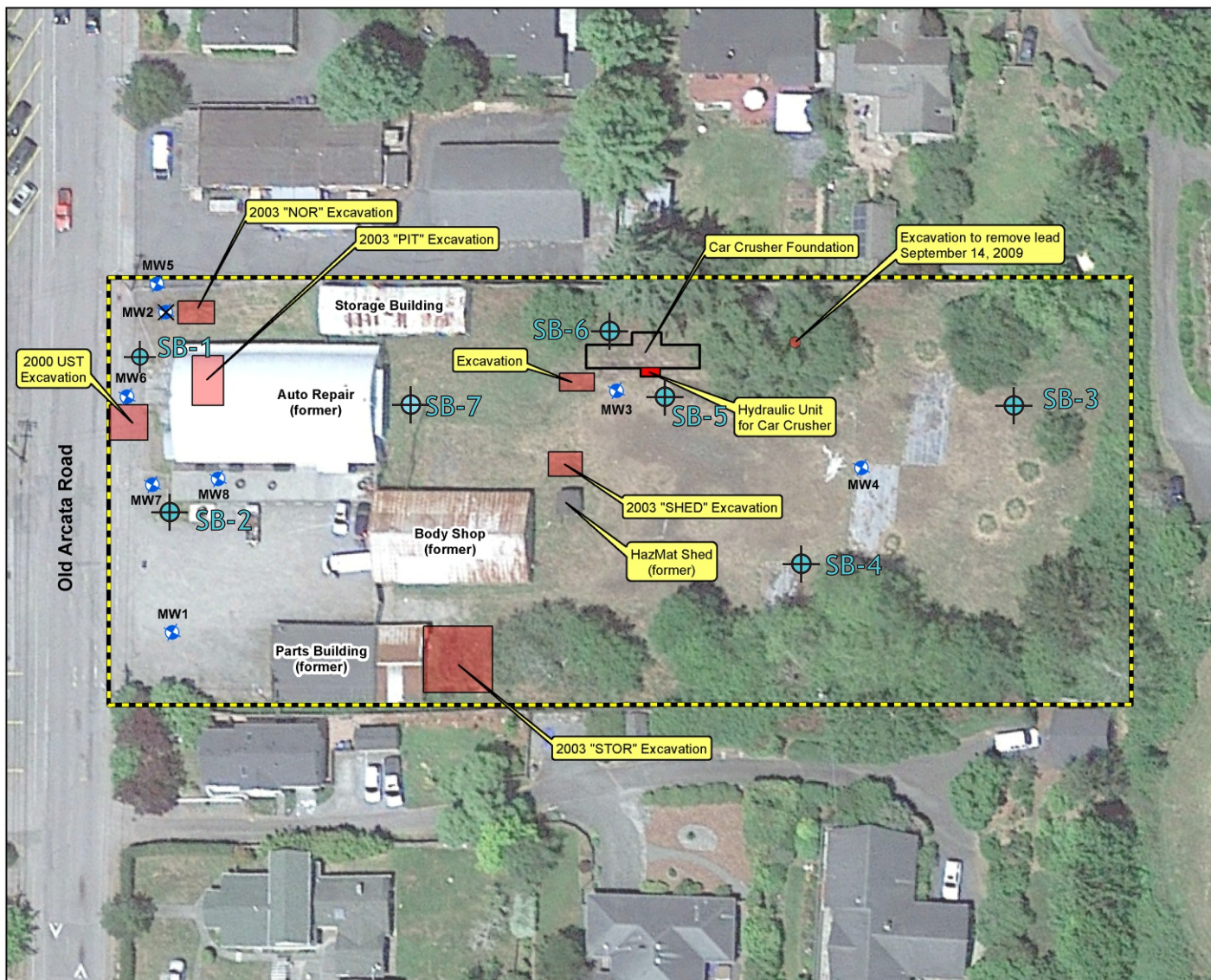


TOPOGRAPHIC MAP



1622 Old Arcata Road,
Arcata, California 95524

FIGURE 1
Project No. 488291



LEGEND

- Approximate Site Boundary
- Excavation
- Car Crusher Foundation
- Monitoring Well
- Monitoring Well (destroyed)

Base Image Data Source:
Google Earth Pro: July 2022

ALL LOCATIONS APPROXIMATE

Source:
Figure 5
Phase I Environmental Site Assessment
by Freshwater Environmental Services
dated January 4, 2024



0 32 64
SCALE: 1" = 64'
Scale is Approximate

LEGEND

- Approximate Soil Boring Location

SAMPLE LOCATION MAP



1622 Old Arcata Road
Bayside, California

FIGURE 2
Project No. 488291

TABLES

TABLE 1: SOIL SAMPLE DATA SUMMARY
1622 Old Arcata Road, Arcata, California

Location ID	Date	Depth (feet bgs)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	PCBs (mg/kg)
SB-5	4/23/2024	1	1.0	<20	300	<0.025
SB-5	4/23/2024	2.5	<1.0	<2.0	<10	<0.025
Comparison Values:						
ESL Direct Exposure - Res			430	260	12,000	0.23
ESL Direct Exposure - Com/Ind			2,000	1,200	185,000	0.94

Notes:

mg/kg milligrams per kilogram
 <RL less than the laboratory reporting limit
 bgs below ground surface
 TPH-g Total Petroleum Hydrocarbons as Gasoline
 TPH-d Total Petroleum Hydrocarbons as Diesel
 TPH-mo Total Petroleum Hydrocarbons as Motor Oil
 PCE Tetrachloroethene
 PCBs Polychlorinated Biphenyls
Bold Result exceeds a Comparison Value

Comparison Values:

ESL Direct Exposure - Res: Environmental Screening Levels (ESLs) showing Direct Exposure Human Health Residential (Res) Use exposure risks from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

ESL Direct Exposure - Com/Ind: Environmental Screening Levels (ESLs) showing Direct Exposure Human Health Commercial/Industrial (Com/Ind) Use exposure risks from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

TABLE 2: GROUNDWATER SAMPLE DATA SUMMARY
1622 Old Arcata Road, Arcata, California

Location ID	Date	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	n-Butyl benzene (µg/L)	Isopropyl-benzene (µg/L)
SB-1-W	4/23/2024	4,700	1,500	2,600	2.2	6.6	76	22	4.8	28
SB-2-W	4/23/2024	<50	2,200	15,000	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
SB-3-W	4/23/2024	<50	<100	<500	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
SB-4-W	4/23/2024	<50	<100	<500	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
SB-5-W	4/23/2024	<50	1,200	<500	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
SB-6-W	4/23/2024	<50	<100	<500	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
SB-7-W	4/23/2024	<50	<100	<500	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50
Comparison Values:										
ESL MCL Priority		760	200	--	1.0	40	30	20	--	--
ESL Vapor Intrusion - Res		--	--	--	0.42	1,200	3.5	390	--	--
ESL Vapor Intrusion - Com/Ind		--	--	--	1.80	4,900	150	1,600	--	--

Notes:

µg/L micrograms per liter
 <RL / <### less than the laboratory reporting limit
 -- not established
 TPH-g Total Petroleum Hydrocarbons as Gasoline
 TPH-d Total Petroleum Hydrocarbons as Diesel
 TPH-mo Total Petroleum Hydrocarbons as Motor Oil
Bold Result exceeds a Comparison Value

Comparison Values:

ESL MCL Priority: Environmental Screening Levels (ESLs) showing Maximum Contaminant Levels (MCLs) from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

ESL Vapor Intrusion - Res: Environmental Screening Levels (ESLs) showing Groundwater Vapor Intrusion (VI) Human Health Risk Levels for Residential exposure risks from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

ESL Vapor Intrusion - Com/Ind: Environmental Screening Levels (ESLs) showing Groundwater Vapor Intrusion (VI) Human Health Risk Levels for Commercial/Industrial exposure risks from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

TABLE 2: GROUNDWATER SAMPLE DATA SUMMARY
1622 Old Arcata Road, Arcata, California

Location ID	Date	4-Isopropyl toluene (µg/L)	Methyl-t-butyl ether (µg/L)	n-Propyl benzene (µg/L)	1,3,5-Tri-methylbenzene (µg/L)	Remaining VOCs (µg/L)
SB-1-W	4/23/2024	8.2	<2.5	30	3.0	<RL
SB-2-W	4/23/2024	<0.50	<0.50	<0.50	<0.50	<RL
SB-3-W	4/23/2024	<0.50	<0.50	<0.50	<0.50	<RL
SB-4-W	4/23/2024	<0.50	<0.50	<0.50	<0.50	<RL
SB-5-W	4/23/2024	<0.50	<0.50	<0.50	<0.50	<RL
SB-6-W	4/23/2024	<0.50	<0.50	<0.50	<0.50	<RL
SB-7-W	4/23/2024	<0.50	1.4	<0.50	<0.50	<RL
Comparison Values:						
ESL MCL Priority		--	5.0	--	--	Various
ESL Vapor Intrusion - Res		--	450	--	--	Various
ESL Vapor Intrusion - Com/Ind		--	2,000	--	--	Various

Notes:

µg/L micrograms per liter
 <RL / <### less than the laboratory reporting limit
 -- not established
 TPH-g Total Petroleum Hydrocarbons as Gasoline
 TPH-d Total Petroleum Hydrocarbons as Diesel
 TPH-mo Total Petroleum Hydrocarbons as Motor Oil
Bold Result exceeds a Comparison Value

Comparison Values:

ESL MCL Priority: Environmental Screening Levels (ESLs) showing Maximum Contaminant Levels (MCLs) from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

ESL Vapor Intrusion - Res: Environmental Screening Levels (ESLs) showing Groundwater Vapor Intrusion (VI) Human Health Risk Levels for Residential exposure risks from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

ESL Vapor Intrusion - Com/Ind: Environmental Screening Levels (ESLs) showing Groundwater Vapor Intrusion (VI) Human Health Risk Levels for Commercial/Industrial exposure risks from July 2019 (Rev. 2) ESL Summary Tables, prepared by the San Francisco Bay Regional Water Quality Control Board

APPENDIX A PERMIT



Division of Environmental Health

100 H Street - Suite 100 - Eureka, CA 95501
Phone: 707-445-6215 - Toll Free: 800-963-9241
Fax: 707-441-5699
envhealth@co.humboldt.ca.us

HAZARDOUS MATERIALS UNIT MONITORING WELL AND BORING PERMIT APPLICATION

Facility ID # _____

Permit # _____

DO NOT WRITE ABOVE THIS LINE - FOR AGENCY USE ONLY

SITE / FACILITY NAME _____ Proposed Work Date 2-21-2024

Physical Address 1622 Old Arcata Road, Arcata, California APN 50019102

PROPERTY OWNER K D Investments, LLC

Contact Name McKenzie Dibble Email mdibble@danco-group.com

Mailing Address 5251 Ericson Way, Arcata, CA 95521 Telephone 707-672-4002

RESPONSIBLE PARTY / CLIENT Same as Owner

Contact Name _____ Email _____

Mailing Address _____ Telephone _____

CONSULTANT AEI Consultants

Contact Name Jeremy Smith License Type and # 654919 (Gen)

Mailing Address 2500 Camino Diablo, Walnut Creek, CA 94597 Email jasmith@aeiconsultants.com

Telephone 925-746-6028

DRILLER EnProbe

Contact Name Dennis Ott C-57 License # 1012248

Mailing Address P.O. Box 6093, Oroville, CA 95966 Email dennis@enprobe.us

Telephone 530-693-0219

INVESTIGATION TYPE ☐ Regulated Case, Case ID Number _____ ☐ Geotechnical
☒ Site Characterization / Due Diligence ☐ Other _____

WELLS AND BORINGS TO BE INSTALLED OR MODIFIED Number of Wells _____ Number of Borings 6

INSTALLATION METHOD ☐ Hollow Stem Auger ☒ Direct Push ☐ Hand Auger ☐ Ultrasonic
☐ Cone Penetrometer ☐ Mud Rotary ☐ Air Rotary ☐ Other _____

WELL TYPE ☐ Monitoring ☐ Extraction ☐ Injection ☐ Cathodic Protection
☐ Soil Gas ☐ Piezometer ☐ Geothermal ☐ Other _____

WELLS TO BE DESTROYED Number of Wells _____

DESTRUCTION METHOD ☐ Pressure Grout ☐ Overbore ☐ Other _____

SUSPECTED CONTAMINATES Hydrocarbons and Volatile Organic Compounds

CONTAINMENT/DISPOSAL OF INVESTIGATION DERIVED WASTE Stored in containers and left onsite pending laboratory analytical. If contamination is found, will be properly disposed of.

Facility ID # _____

Permit # _____

DO NOT WRITE ABOVE THIS LINE - FOR AGENCY USE ONLY**PERMITS WILL NOT BE PROCESSED WITHOUT THE FOLLOWING:**

- ☒ Completed application and fees, must be submitted together.
- ☒ Detailed Site Plan - overhead view.
- ☐ Well construction details - specifications of borehole, casing/screen interval, filter pack, seal and surface features.
- ☐ Lead agency workplan concurrence - required for regulated cleanup sites.
- ☐ Off-site work - encroachment permit for work in municipal right-of-way; access agreement for work on private property.

UPON COMPLETION OF WORK:

- ☐ Well identification number must be displayed on the well box/monument.
- ☐ State Water Well Completion Report (form DWR 188) must be submitted within 60 days of completion of work.

CERTIFICATES OF INSURANCE:

- ☐ A Currently effective General Liability Certificate of Insurance is on file with Humboldt County Division of Environmental Health, endorsed to include the Humboldt County Division of Environmental Health named as additional insured.
- ☐ A Currently effective Worker's Compensation Certificate of Insurance is on file with Humboldt County Division of Environmental Health, endorsed to include the Humboldt County Division of Environmental Health named as additional insured.

I hereby agree to comply with all laws, ordinances and regulations of the County of Humboldt Division of Environmental Health (DEH) and State of California pertaining to water well construction. I acknowledge this application will become a permit only after workplan concurrence by the lead agency with regulatory jurisdiction (DEH, North Coast Regional Water Quality Control Board, Department of Toxic Substances Control / California Environmental Protection Agency). I understand this permit is not transferable and expires one hundred twenty (120) days from the date of permit approval. I will notify DEH at (707) 445-6215 Five (5) working days prior to commencing this work.

For well installation/destruction, I will submit a State Water Well Completion Report (form DWR 188) within 60 days of completion of work to obtain final approval of this permit.

Signature of C-57 Licensed driller - no proxies - blue ink only _____

Date _____

If paid by Credit Card: Date and amount paid _____

Confirmation #: _____

DO NOT WRITE BELOW THIS LINE - FOR AGENCY USE ONLY

* FOR OFFICE USE ONLY *		
Amount Paid ☐ Cash \$ ☐ Check #	Receipt Number	O.P. confirmed by:
FA#	SR #	IN#

PLAN APPROVED _____

DATE _____

WORK APPROVED _____

DATE _____

NON-TRANSFERABLE**WHEN APPROVED, THIS IS YOUR PERMIT**

APPENDIX B

BORING LOGS



AEI Consultants
701 Campus Square West, Suite 723A
El Segundo, CA 90245
Telephone: 310-798-4255

BORING NUMBER SB-3

PAGE 1 OF 1

CLIENT	Danco Communities	PROJECT NAME	Limited Phase II Subsurface Investigation
PROJECT NUMBER	488291	PROJECT LOCATION	1622 Old Arcata Road, Arcata, CA
DATE STARTED	4/23/24	COMPLETED	4/23/24
DRILLING CONTRACTOR	Enprobe	GROUND ELEVATION	
DRILLING METHOD	Hand Auger	HOLE SIZE	2.25 inches
LOGGED BY	N. Woods	CHECKED BY	C. Klock
NOTES			
GROUND WATER LEVELS:			
AT TIME OF DRILLING		---	
AT END OF DRILLING		---	
AFTER DRILLING		--- 3.50 feet after 2 hours	

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
1					GRAVELLY SILTY SAND (SM), dark grayish brown (10YR; 4/2), medium density, moist, fines to cobbles	
2						
2.5					SILTY CLAY (CL), brownish yellow (10YR; 6/8), stiff, moist, medium plasticity	
3						
4						
5						
5.5						

Bottom of borehole at 5.5 feet.



AEI Consultants
701 Campus Square West, Suite 723A
El Segundo, CA 90245
Telephone: 310-798-4255

BORING NUMBER SB-4

PAGE 1 OF 1

CLIENT	Danco Communities	PROJECT NAME	Limited Phase II Subsurface Investigation
PROJECT NUMBER	488291	PROJECT LOCATION	1622 Old Arcata Road, Arcata, CA
DATE STARTED	4/23/24	COMPLETED	4/23/24
DRILLING CONTRACTOR	Enprobe	GROUND ELEVATION	
DRILLING METHOD	Hand Auger	HOLE SIZE	2.25 inches
LOGGED BY	N. Woods	CHECKED BY	C. Klock
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	--- 4.50 feet
		AT END OF DRILLING	---
		AFTER DRILLING	--- 2.50 feet after 1.5 hours

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
1					GRAVELLY SILTY SAND (SM), dark greyish brown, (10YR; 4/2), medium density, moist, fines to coarse gravel	
2						
3						
4						
5						

AEI BORING - GINT STD US LAB.GDT - 5/10/24 14:27 - P:\COMPANYWIDE PROJECTS\488000 SERIES\488291 ARCATA, CA\SMDELIVERABLES\LOGS\488291 LOGS.GPJ

2.3

SILTY CLAY (MH), brownish yellow (10YR; 6/8), stiff, moist, high plasticity, fines

at 4 feet, wet

5.0

Bottom of borehole at 5.0 feet.



AEI Consultants
701 Campus Square West, Suite 723A
El Segundo, CA 90245
Telephone: 310-798-4255

BORING NUMBER SB-5

PAGE 1 OF 1

CLIENT	Danco Communities	PROJECT NAME	Limited Phase II Subsurface Investigation
PROJECT NUMBER	488291	PROJECT LOCATION	1622 Old Arcata Road, Arcata, CA
DATE STARTED	4/23/24	COMPLETED	4/23/24
DRILLING CONTRACTOR	Enprobe	GROUND ELEVATION	
DRILLING METHOD	Hand Auger	HOLE SIZE	2.25 inches
LOGGED BY	N. Woods	CHECKED BY	C. Klock
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	--- 5.00 feet
		AT END OF DRILLING	---
		AFTER DRILLING	---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
1	SB-5-1				GRAVELLY SILTY SAND (SM), dark brown (10YR; 3/3), medium density, moist, fine to coarse gravel, trace organics	
2	SB-5-2				at 0.75 feet bgs, no organics	
3	SB-5-2.5				CLAY (CH), black (10YR; 2/1), soft, moist, high plasticity, trace fines	
4					at 3.75 feet bgs, light gray (2.5Y; 2/1) and brownish yellow (10YR; 6/6)	
5	SB-5-5					
6						

Bottom of borehole at 6.0 feet.



AEI Consultants
701 Campus Square West, Suite 723A
El Segundo, CA 90245
Telephone: 310-798-4255

BORING NUMBER SB-6

PAGE 1 OF 1

CLIENT	Danco Communities	PROJECT NAME	Limited Phase II Subsurface Investigation
PROJECT NUMBER	488291	PROJECT LOCATION	1622 Old Arcata Road, Arcata, CA
DATE STARTED	4/23/24	COMPLETED	4/23/24
DRILLING CONTRACTOR	Enprobe	GROUND ELEVATION	
DRILLING METHOD	Hand Auger	HOLE SIZE	2.25 inches
LOGGED BY	N. Woods	CHECKED BY	C. Klock
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	--- 5.20 feet
		AT END OF DRILLING	--- ---
		AFTER DRILLING	--- ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
1	SB-6-1				SILTY SAND WITH GRAVEL (SM), very dark greenish brown (10YR; 3/2), medium density, moist, fines to fine gravel,	
2						
3	SB-6-2.5				CLAY (CH), very dark grayish brown (10YR; 3/2), medium stiffness, moist, high plasticity, trace fines	
4						
5	SB-6-5				at 3.25 feet bgs, light gray (2.5Y; 2/1) and brownish yellow (10YR; 6/6)	
6						

Bottom of borehole at 6.0 feet.



AEI Consultants
701 Campus Square West, Suite 723A
El Segundo, CA 90245
Telephone: 310-798-4255

BORING NUMBER SB-7

PAGE 1 OF 1

CLIENT	Danco Communities	PROJECT NAME	Limited Phase II Subsurface Investigation
PROJECT NUMBER	488291	PROJECT LOCATION	1622 Old Arcata Road, Arcata, CA
DATE STARTED	4/23/24	COMPLETED	4/23/24
DRILLING CONTRACTOR	Enprobe	GROUND ELEVATION	
DRILLING METHOD	Hand Auger	HOLE SIZE	2.25 inches
LOGGED BY	N. Woods	CHECKED BY	C. Klock
NOTES			
		GROUND WATER LEVELS:	
		AT TIME OF DRILLING	--- 3 feet
		AT END OF DRILLING	--- ---
		AFTER DRILLING	--- ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
1					GRAVELLY SILTY SAND (SM), dark grayish brown (10YR; 4/2), medium density, moist, fines to cobbles	
2						
2.3					CLAY (CH), dark grayish brown (10YR; 4/2), stiff, moist, high plasticity, trace fines	
3					at 3 feet bgs, wet	
4					at 3.5 feet bgs, brownish yellow (10YR: 6/8)	
5						
6						

Bottom of borehole at 6.0 feet.

APPENDIX C
LABORATORY ANALYTICAL
REPORT



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2404L59

Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Nick Woods

Project P.O.: 365388

Project: 488291; Danco Communities

Project Location: Arcata, CA

Project Received: 04/24/2024

Analytical Report reviewed & approved for release on 05/03/2024 by:

Jennifer Lagerbom
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants

WorkOrder: 2404L59

Project: 488291; Danco Communities

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range
SPK Val	Spike Value

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



Glossary of Terms & Qualifier Definitions

Client: AEI Consultants

WorkOrder: 2404L59

Project: 488291; Danco Communities

SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	"Too Numerous to Count;" greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	Surrogate recovery outside accepted recovery limits.
a2	Sample diluted due to cluttered chromatogram.
a3	Sample diluted due to high organic content interfering with quantitative/or qualitative analysis.
b1	Aqueous sample that contains greater than ~1 vol. % sediment
c4	Surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
c14	The surrogate recovery is below the lower control limit. The target analyte(s) were Not Detected (ND); therefore, the data is estimated.
d1	Weakly modified or unmodified gasoline is detected
e2	Diesel range compounds are detected; no recognizable pattern
e4	Gasoline range compounds are detected.
e7	Oil range compounds are detected.
h2	Silica-gel (EPA 3630) cleanup
h7	Copper (EPA 3660B) cleanup
h8	Charcoal clean up (MAI)
h9	Size Exclusion Gravity Cleanup

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
----	---



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW3550B
Analytical Method: SW8082A
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-1'	2404L59-003A	Soil	04/23/2024 12:11	GC23 05022409.d	292662

Analytes	Result	RL	DE	Date Analyzed
Aroclor1016	ND	0.025	5	05/02/2024 11:45
Aroclor1221	ND	0.025	5	05/02/2024 11:45
Aroclor1232	ND	0.025	5	05/02/2024 11:45
Aroclor1242	ND	0.025	5	05/02/2024 11:45
Aroclor1248	ND	0.025	5	05/02/2024 11:45
Aroclor1254	ND	0.025	5	05/02/2024 11:45
Aroclor1260	ND	0.025	5	05/02/2024 11:45
PCBs, total	ND	0.025	5	05/02/2024 11:45

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	123	60-130	05/02/2024 11:45

Analyst(s): CN

Analytical Comments: a3

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2.5'	2404L59-005A	Soil	04/23/2024 12:22	GC23 05022458.d	292662

Analytes	Result	RL	DE	Date Analyzed
Aroclor1016	ND	0.025	5	05/03/2024 00:33
Aroclor1221	ND	0.025	5	05/03/2024 00:33
Aroclor1232	ND	0.025	5	05/03/2024 00:33
Aroclor1242	ND	0.025	5	05/03/2024 00:33
Aroclor1248	ND	0.025	5	05/03/2024 00:33
Aroclor1254	ND	0.025	5	05/03/2024 00:33
Aroclor1260	ND	0.025	5	05/03/2024 00:33
PCBs, total	ND	0.025	5	05/03/2024 00:33

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	101	60-130	05/03/2024 00:33

Analyst(s): CN

Analytical Comments: a2,h7,h9,h2,h8



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-1-W	2404L59-010B	Water	04/23/2024 14:20		GC16 04292424.D	292694
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>	
Acetone	ND		200	5	04/29/2024 23:32	
tert-Amyl methyl ether (TAME)	ND		2.5	5	04/29/2024 23:32	
Benzene	2.2		1.0	5	04/29/2024 23:32	
Bromobenzene	ND		2.5	5	04/29/2024 23:32	
Bromochloromethane	ND		2.5	5	04/29/2024 23:32	
Bromodichloromethane	ND		0.25	5	04/29/2024 23:32	
Bromoform	ND		2.5	5	04/29/2024 23:32	
Bromomethane	ND		2.5	5	04/29/2024 23:32	
2-Butanone (MEK)	ND		25	5	04/29/2024 23:32	
t-Butyl alcohol (TBA)	ND		25	5	04/29/2024 23:32	
n-Butyl benzene	4.8		2.5	5	04/29/2024 23:32	
sec-Butyl benzene	ND		2.5	5	04/29/2024 23:32	
tert-Butyl benzene	ND		2.5	5	04/29/2024 23:32	
Carbon Disulfide	ND		2.5	5	04/29/2024 23:32	
Carbon Tetrachloride	ND		0.25	5	04/29/2024 23:32	
Chlorobenzene	ND		2.5	5	04/29/2024 23:32	
Chloroethane	ND		2.5	5	04/29/2024 23:32	
Chloroform	ND		0.50	5	04/29/2024 23:32	
Chloromethane	ND		2.5	5	04/29/2024 23:32	
2-Chlorotoluene	ND		2.5	5	04/29/2024 23:32	
4-Chlorotoluene	ND		2.5	5	04/29/2024 23:32	
Dibromochloromethane	ND		0.75	5	04/29/2024 23:32	
1,2-Dibromo-3-chloropropane	ND		0.10	5	04/29/2024 23:32	
1,2-Dibromoethane (EDB)	ND		0.20	5	04/29/2024 23:32	
Dibromomethane	ND		2.5	5	04/29/2024 23:32	
1,2-Dichlorobenzene	ND		2.5	5	04/29/2024 23:32	
1,3-Dichlorobenzene	ND		2.5	5	04/29/2024 23:32	
1,4-Dichlorobenzene	ND		2.5	5	04/29/2024 23:32	
Dichlorodifluoromethane	ND		2.5	5	04/29/2024 23:32	
1,1-Dichloroethane	ND		2.5	5	04/29/2024 23:32	
1,2-Dichloroethane (1,2-DCA)	ND		0.10	5	04/29/2024 23:32	
1,1-Dichloroethene	ND		0.050	5	04/29/2024 23:32	
cis-1,2-Dichloroethene	ND		2.5	5	04/29/2024 23:32	
trans-1,2-Dichloroethene	ND		2.5	5	04/29/2024 23:32	
1,2-Dichloropropane	ND		1.0	5	04/29/2024 23:32	
1,3-Dichloropropane	ND		2.5	5	04/29/2024 23:32	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-1-W	2404L59-010B	Water	04/23/2024 14:20		GC16 04292424.D	292694
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>	
2,2-Dichloropropane	ND		2.5	5	04/29/2024 23:32	
1,1-Dichloropropene	ND		2.5	5	04/29/2024 23:32	
cis-1,3-Dichloropropene	ND		2.5	5	04/29/2024 23:32	
trans-1,3-Dichloropropene	ND		2.5	5	04/29/2024 23:32	
Diisopropyl ether (DIPE)	ND		2.5	5	04/29/2024 23:32	
Ethylbenzene	76		2.5	5	04/29/2024 23:32	
Ethyl tert-butyl ether (ETBE)	ND		2.5	5	04/29/2024 23:32	
Freon 113	ND		2.5	5	04/29/2024 23:32	
Hexachlorobutadiene	ND		2.5	5	04/29/2024 23:32	
Hexachloroethane	ND		1.0	5	04/29/2024 23:32	
2-Hexanone	ND		2.5	5	04/29/2024 23:32	
Isopropylbenzene	28		2.5	5	04/29/2024 23:32	
4-Isopropyl toluene	8.2		2.5	5	04/29/2024 23:32	
Methyl-t-butyl ether (MTBE)	ND		2.5	5	04/29/2024 23:32	
Methylene chloride	ND		10	5	04/29/2024 23:32	
4-Methyl-2-pentanone (MIBK)	ND		2.5	5	04/29/2024 23:32	
Naphthalene	ND		1.5	5	04/29/2024 23:32	
n-Propyl benzene	30		2.5	5	04/29/2024 23:32	
Styrene	ND		10	5	04/29/2024 23:32	
1,1,1,2-Tetrachloroethane	ND		2.5	5	04/29/2024 23:32	
1,1,2,2-Tetrachloroethane	ND		0.10	5	04/29/2024 23:32	
Tetrachloroethene	ND		1.0	5	04/29/2024 23:32	
Toluene	6.6		2.5	5	04/29/2024 23:32	
1,2,3-Trichlorobenzene	ND		2.5	5	04/29/2024 23:32	
1,2,4-Trichlorobenzene	ND		2.5	5	04/29/2024 23:32	
1,1,1-Trichloroethane	ND		2.5	5	04/29/2024 23:32	
1,1,2-Trichloroethane	ND		1.0	5	04/29/2024 23:32	
Trichloroethene	ND		2.5	5	04/29/2024 23:32	
Trichlorofluoromethane	ND		2.5	5	04/29/2024 23:32	
1,2,3-Trichloropropane	ND		0.025	5	04/29/2024 23:32	
1,2,4-Trimethylbenzene	ND		2.5	5	04/29/2024 23:32	
1,3,5-Trimethylbenzene	3.0		2.5	5	04/29/2024 23:32	
Vinyl Chloride	ND		0.025	5	04/29/2024 23:32	
m,p-Xylene	22		2.5	5	04/29/2024 23:32	
o-Xylene	ND		2.5	5	04/29/2024 23:32	
Xylenes, Total	22		2.5	5	04/29/2024 23:32	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	2404L59-010B	Water	04/23/2024 14:20	GC16 04292424.D	292694
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DE</u>		<u>Date Analyzed</u>
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	95		70-130		04/29/2024 23:32
Toluene-d8	96		70-130		04/29/2024 23:32
4-BFB	89		70-130		04/29/2024 23:32
<u>Analyst(s):</u> PRE			<u>Analytical Comments:</u> b1		



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-2-W	2404L59-011B	Water	04/23/2024 14:25		GC28 04292409.D	292690
Analytes	Result	RL	DE	Date Analyzed		
Acetone	ND	40	1	04/29/2024 12:46		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/29/2024 12:46		
Benzene	ND	0.20	1	04/29/2024 12:46		
Bromobenzene	ND	0.50	1	04/29/2024 12:46		
Bromochloromethane	ND	0.50	1	04/29/2024 12:46		
Bromodichloromethane	ND	0.050	1	04/29/2024 12:46		
Bromoform	ND	0.50	1	04/29/2024 12:46		
Bromomethane	ND	0.50	1	04/29/2024 12:46		
2-Butanone (MEK)	ND	5.0	1	04/29/2024 12:46		
t-Butyl alcohol (TBA)	ND	5.0	1	04/29/2024 12:46		
n-Butyl benzene	ND	0.50	1	04/29/2024 12:46		
sec-Butyl benzene	ND	0.50	1	04/29/2024 12:46		
tert-Butyl benzene	ND	0.50	1	04/29/2024 12:46		
Carbon Disulfide	ND	0.50	1	04/29/2024 12:46		
Carbon Tetrachloride	ND	0.050	1	04/29/2024 12:46		
Chlorobenzene	ND	0.50	1	04/29/2024 12:46		
Chloroethane	ND	0.50	1	04/29/2024 12:46		
Chloroform	ND	0.10	1	04/29/2024 12:46		
Chloromethane	ND	0.50	1	04/29/2024 12:46		
2-Chlorotoluene	ND	0.50	1	04/29/2024 12:46		
4-Chlorotoluene	ND	0.50	1	04/29/2024 12:46		
Dibromochloromethane	ND	0.15	1	04/29/2024 12:46		
1,2-Dibromo-3-chloropropane	ND	0.020	1	04/29/2024 12:46		
1,2-Dibromoethane (EDB)	ND	0.040	1	04/29/2024 12:46		
Dibromomethane	ND	0.50	1	04/29/2024 12:46		
1,2-Dichlorobenzene	ND	0.50	1	04/29/2024 12:46		
1,3-Dichlorobenzene	ND	0.50	1	04/29/2024 12:46		
1,4-Dichlorobenzene	ND	0.50	1	04/29/2024 12:46		
Dichlorodifluoromethane	ND	0.50	1	04/29/2024 12:46		
1,1-Dichloroethane	ND	0.50	1	04/29/2024 12:46		
1,2-Dichloroethane (1,2-DCA)	ND	0.020	1	04/29/2024 12:46		
1,1-Dichloroethene	ND	0.010	1	04/29/2024 12:46		
cis-1,2-Dichloroethene	ND	0.50	1	04/29/2024 12:46		
trans-1,2-Dichloroethene	ND	0.50	1	04/29/2024 12:46		
1,2-Dichloropropane	ND	0.20	1	04/29/2024 12:46		
1,3-Dichloropropane	ND	0.50	1	04/29/2024 12:46		

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-2-W	2404L59-011B	Water	04/23/2024 14:25		GC28 04292409.D	292690
Analytes	Result	RL	DE	Date Analyzed		
2,2-Dichloropropane	ND	0.50	1	04/29/2024 12:46		
1,1-Dichloropropene	ND	0.50	1	04/29/2024 12:46		
cis-1,3-Dichloropropene	ND	0.50	1	04/29/2024 12:46		
trans-1,3-Dichloropropene	ND	0.50	1	04/29/2024 12:46		
Diisopropyl ether (DIPE)	ND	0.50	1	04/29/2024 12:46		
Ethylbenzene	ND	0.50	1	04/29/2024 12:46		
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	04/29/2024 12:46		
Freon 113	ND	0.50	1	04/29/2024 12:46		
Hexachlorobutadiene	ND	0.50	1	04/29/2024 12:46		
Hexachloroethane	ND	0.20	1	04/29/2024 12:46		
2-Hexanone	ND	0.50	1	04/29/2024 12:46		
Isopropylbenzene	ND	0.50	1	04/29/2024 12:46		
4-Isopropyl toluene	ND	0.50	1	04/29/2024 12:46		
Methyl-t-butyl ether (MTBE)	ND	0.50	1	04/29/2024 12:46		
Methylene chloride	ND	2.0	1	04/29/2024 12:46		
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	04/29/2024 12:46		
Naphthalene	ND	0.30	1	04/29/2024 12:46		
n-Propyl benzene	ND	0.50	1	04/29/2024 12:46		
Styrene	ND	2.0	1	04/29/2024 12:46		
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/29/2024 12:46		
1,1,2,2-Tetrachloroethane	ND	0.020	1	04/29/2024 12:46		
Tetrachloroethene	ND	0.20	1	04/29/2024 12:46		
Toluene	ND	0.50	1	04/29/2024 12:46		
1,2,3-Trichlorobenzene	ND	0.50	1	04/29/2024 12:46		
1,2,4-Trichlorobenzene	ND	0.50	1	04/29/2024 12:46		
1,1,1-Trichloroethane	ND	0.50	1	04/29/2024 12:46		
1,1,2-Trichloroethane	ND	0.20	1	04/29/2024 12:46		
Trichloroethene	ND	0.50	1	04/29/2024 12:46		
Trichlorofluoromethane	ND	0.50	1	04/29/2024 12:46		
1,2,3-Trichloropropane	ND	0.0050	1	04/29/2024 12:46		
1,2,4-Trimethylbenzene	ND	0.50	1	04/29/2024 12:46		
1,3,5-Trimethylbenzene	ND	0.50	1	04/29/2024 12:46		
Vinyl Chloride	ND	0.0050	1	04/29/2024 12:46		
m,p-Xylene	ND	0.50	1	04/29/2024 12:46		
o-Xylene	ND	0.50	1	04/29/2024 12:46		
Xylenes, Total	ND	0.50	1	04/29/2024 12:46		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	2404L59-011B	Water	04/23/2024 14:25	GC28 04292409.D	292690

Analytes	Result	RL	DE	Date Analyzed
Surrogates	REC (%)	Limits		
Dibromofluoromethane	105	70-130		04/29/2024 12:46
Toluene-d8	100	70-130		04/29/2024 12:46
4-BFB	104	70-130		04/29/2024 12:46

Analyst(s): TW

Analytical Comments: b1



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-3-W	2404L59-012B	Water	04/23/2024 14:35		GC28 04292410.D	292690
Analytes	Result	RL	DE	Date Analyzed		
Acetone	ND	40	1	04/29/2024 13:24		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/29/2024 13:24		
Benzene	ND	0.20	1	04/29/2024 13:24		
Bromobenzene	ND	0.50	1	04/29/2024 13:24		
Bromochloromethane	ND	0.50	1	04/29/2024 13:24		
Bromodichloromethane	ND	0.050	1	04/29/2024 13:24		
Bromoform	ND	0.50	1	04/29/2024 13:24		
Bromomethane	ND	0.50	1	04/29/2024 13:24		
2-Butanone (MEK)	ND	5.0	1	04/29/2024 13:24		
t-Butyl alcohol (TBA)	ND	5.0	1	04/29/2024 13:24		
n-Butyl benzene	ND	0.50	1	04/29/2024 13:24		
sec-Butyl benzene	ND	0.50	1	04/29/2024 13:24		
tert-Butyl benzene	ND	0.50	1	04/29/2024 13:24		
Carbon Disulfide	ND	0.50	1	04/29/2024 13:24		
Carbon Tetrachloride	ND	0.050	1	04/29/2024 13:24		
Chlorobenzene	ND	0.50	1	04/29/2024 13:24		
Chloroethane	ND	0.50	1	04/29/2024 13:24		
Chloroform	ND	0.10	1	04/29/2024 13:24		
Chloromethane	ND	0.50	1	04/29/2024 13:24		
2-Chlorotoluene	ND	0.50	1	04/29/2024 13:24		
4-Chlorotoluene	ND	0.50	1	04/29/2024 13:24		
Dibromochloromethane	ND	0.15	1	04/29/2024 13:24		
1,2-Dibromo-3-chloropropane	ND	0.020	1	04/29/2024 13:24		
1,2-Dibromoethane (EDB)	ND	0.040	1	04/29/2024 13:24		
Dibromomethane	ND	0.50	1	04/29/2024 13:24		
1,2-Dichlorobenzene	ND	0.50	1	04/29/2024 13:24		
1,3-Dichlorobenzene	ND	0.50	1	04/29/2024 13:24		
1,4-Dichlorobenzene	ND	0.50	1	04/29/2024 13:24		
Dichlorodifluoromethane	ND	0.50	1	04/29/2024 13:24		
1,1-Dichloroethane	ND	0.50	1	04/29/2024 13:24		
1,2-Dichloroethane (1,2-DCA)	ND	0.020	1	04/29/2024 13:24		
1,1-Dichloroethene	ND	0.010	1	04/29/2024 13:24		
cis-1,2-Dichloroethene	ND	0.50	1	04/29/2024 13:24		
trans-1,2-Dichloroethene	ND	0.50	1	04/29/2024 13:24		
1,2-Dichloropropane	ND	0.20	1	04/29/2024 13:24		
1,3-Dichloropropane	ND	0.50	1	04/29/2024 13:24		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-3-W	2404L59-012B	Water	04/23/2024 14:35		GC28 04292410.D	292690
Analytes	Result	RL	DE	Date Analyzed		
2,2-Dichloropropane	ND	0.50	1	04/29/2024 13:24		
1,1-Dichloropropene	ND	0.50	1	04/29/2024 13:24		
cis-1,3-Dichloropropene	ND	0.50	1	04/29/2024 13:24		
trans-1,3-Dichloropropene	ND	0.50	1	04/29/2024 13:24		
Diisopropyl ether (DIPE)	ND	0.50	1	04/29/2024 13:24		
Ethylbenzene	ND	0.50	1	04/29/2024 13:24		
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	04/29/2024 13:24		
Freon 113	ND	0.50	1	04/29/2024 13:24		
Hexachlorobutadiene	ND	0.50	1	04/29/2024 13:24		
Hexachloroethane	ND	0.20	1	04/29/2024 13:24		
2-Hexanone	ND	0.50	1	04/29/2024 13:24		
Isopropylbenzene	ND	0.50	1	04/29/2024 13:24		
4-Isopropyl toluene	ND	0.50	1	04/29/2024 13:24		
Methyl-t-butyl ether (MTBE)	ND	0.50	1	04/29/2024 13:24		
Methylene chloride	ND	2.0	1	04/29/2024 13:24		
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	04/29/2024 13:24		
Naphthalene	ND	0.30	1	04/29/2024 13:24		
n-Propyl benzene	ND	0.50	1	04/29/2024 13:24		
Styrene	ND	2.0	1	04/29/2024 13:24		
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/29/2024 13:24		
1,1,2,2-Tetrachloroethane	ND	0.020	1	04/29/2024 13:24		
Tetrachloroethene	ND	0.20	1	04/29/2024 13:24		
Toluene	ND	0.50	1	04/29/2024 13:24		
1,2,3-Trichlorobenzene	ND	0.50	1	04/29/2024 13:24		
1,2,4-Trichlorobenzene	ND	0.50	1	04/29/2024 13:24		
1,1,1-Trichloroethane	ND	0.50	1	04/29/2024 13:24		
1,1,2-Trichloroethane	ND	0.20	1	04/29/2024 13:24		
Trichloroethene	ND	0.50	1	04/29/2024 13:24		
Trichlorofluoromethane	ND	0.50	1	04/29/2024 13:24		
1,2,3-Trichloropropane	ND	0.0050	1	04/29/2024 13:24		
1,2,4-Trimethylbenzene	ND	0.50	1	04/29/2024 13:24		
1,3,5-Trimethylbenzene	ND	0.50	1	04/29/2024 13:24		
Vinyl Chloride	ND	0.0050	1	04/29/2024 13:24		
m,p-Xylene	ND	0.50	1	04/29/2024 13:24		
o-Xylene	ND	0.50	1	04/29/2024 13:24		
Xylenes, Total	ND	0.50	1	04/29/2024 13:24		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	2404L59-012B	Water	04/23/2024 14:35	GC28 04292410.D	292690

Analytes	Result	RL	DE	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	99	70-130		04/29/2024 13:24
Toluene-d8	101	70-130		04/29/2024 13:24
4-BFB	103	70-130		04/29/2024 13:24

Analyst(s): TW



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-4-W	2404L59-013B	Water	04/23/2024 14:50		GC28 04292411.D	292690
Analytes	Result	RL	DE	Date Analyzed		
Acetone	ND	40	1	04/29/2024 14:02		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/29/2024 14:02		
Benzene	ND	0.20	1	04/29/2024 14:02		
Bromobenzene	ND	0.50	1	04/29/2024 14:02		
Bromochloromethane	ND	0.50	1	04/29/2024 14:02		
Bromodichloromethane	ND	0.050	1	04/29/2024 14:02		
Bromoform	ND	0.50	1	04/29/2024 14:02		
Bromomethane	ND	0.50	1	04/29/2024 14:02		
2-Butanone (MEK)	ND	5.0	1	04/29/2024 14:02		
t-Butyl alcohol (TBA)	ND	5.0	1	04/29/2024 14:02		
n-Butyl benzene	ND	0.50	1	04/29/2024 14:02		
sec-Butyl benzene	ND	0.50	1	04/29/2024 14:02		
tert-Butyl benzene	ND	0.50	1	04/29/2024 14:02		
Carbon Disulfide	ND	0.50	1	04/29/2024 14:02		
Carbon Tetrachloride	ND	0.050	1	04/29/2024 14:02		
Chlorobenzene	ND	0.50	1	04/29/2024 14:02		
Chloroethane	ND	0.50	1	04/29/2024 14:02		
Chloroform	ND	0.10	1	04/29/2024 14:02		
Chloromethane	ND	0.50	1	04/29/2024 14:02		
2-Chlorotoluene	ND	0.50	1	04/29/2024 14:02		
4-Chlorotoluene	ND	0.50	1	04/29/2024 14:02		
Dibromochloromethane	ND	0.15	1	04/29/2024 14:02		
1,2-Dibromo-3-chloropropane	ND	0.020	1	04/29/2024 14:02		
1,2-Dibromoethane (EDB)	ND	0.040	1	04/29/2024 14:02		
Dibromomethane	ND	0.50	1	04/29/2024 14:02		
1,2-Dichlorobenzene	ND	0.50	1	04/29/2024 14:02		
1,3-Dichlorobenzene	ND	0.50	1	04/29/2024 14:02		
1,4-Dichlorobenzene	ND	0.50	1	04/29/2024 14:02		
Dichlorodifluoromethane	ND	0.50	1	04/29/2024 14:02		
1,1-Dichloroethane	ND	0.50	1	04/29/2024 14:02		
1,2-Dichloroethane (1,2-DCA)	ND	0.020	1	04/29/2024 14:02		
1,1-Dichloroethene	ND	0.010	1	04/29/2024 14:02		
cis-1,2-Dichloroethene	ND	0.50	1	04/29/2024 14:02		
trans-1,2-Dichloroethene	ND	0.50	1	04/29/2024 14:02		
1,2-Dichloropropane	ND	0.20	1	04/29/2024 14:02		
1,3-Dichloropropane	ND	0.50	1	04/29/2024 14:02		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-4-W	2404L59-013B	Water	04/23/2024 14:50		GC28 04292411.D	292690
Analytes	Result	RL	DE	Date Analyzed		
2,2-Dichloropropane	ND	0.50	1	04/29/2024 14:02		
1,1-Dichloropropene	ND	0.50	1	04/29/2024 14:02		
cis-1,3-Dichloropropene	ND	0.50	1	04/29/2024 14:02		
trans-1,3-Dichloropropene	ND	0.50	1	04/29/2024 14:02		
Diisopropyl ether (DIPE)	ND	0.50	1	04/29/2024 14:02		
Ethylbenzene	ND	0.50	1	04/29/2024 14:02		
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	04/29/2024 14:02		
Freon 113	ND	0.50	1	04/29/2024 14:02		
Hexachlorobutadiene	ND	0.50	1	04/29/2024 14:02		
Hexachloroethane	ND	0.20	1	04/29/2024 14:02		
2-Hexanone	ND	0.50	1	04/29/2024 14:02		
Isopropylbenzene	ND	0.50	1	04/29/2024 14:02		
4-Isopropyl toluene	ND	0.50	1	04/29/2024 14:02		
Methyl-t-butyl ether (MTBE)	ND	0.50	1	04/29/2024 14:02		
Methylene chloride	ND	2.0	1	04/29/2024 14:02		
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	04/29/2024 14:02		
Naphthalene	ND	0.30	1	04/29/2024 14:02		
n-Propyl benzene	ND	0.50	1	04/29/2024 14:02		
Styrene	ND	2.0	1	04/29/2024 14:02		
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/29/2024 14:02		
1,1,2,2-Tetrachloroethane	ND	0.020	1	04/29/2024 14:02		
Tetrachloroethene	ND	0.20	1	04/29/2024 14:02		
Toluene	ND	0.50	1	04/29/2024 14:02		
1,2,3-Trichlorobenzene	ND	0.50	1	04/29/2024 14:02		
1,2,4-Trichlorobenzene	ND	0.50	1	04/29/2024 14:02		
1,1,1-Trichloroethane	ND	0.50	1	04/29/2024 14:02		
1,1,2-Trichloroethane	ND	0.20	1	04/29/2024 14:02		
Trichloroethene	ND	0.50	1	04/29/2024 14:02		
Trichlorofluoromethane	ND	0.50	1	04/29/2024 14:02		
1,2,3-Trichloropropane	ND	0.0050	1	04/29/2024 14:02		
1,2,4-Trimethylbenzene	ND	0.50	1	04/29/2024 14:02		
1,3,5-Trimethylbenzene	ND	0.50	1	04/29/2024 14:02		
Vinyl Chloride	ND	0.0050	1	04/29/2024 14:02		
m,p-Xylene	ND	0.50	1	04/29/2024 14:02		
o-Xylene	ND	0.50	1	04/29/2024 14:02		
Xylenes, Total	ND	0.50	1	04/29/2024 14:02		

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	2404L59-013B	Water	04/23/2024 14:50	GC28 04292411.D	292690

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
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<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	99	70-130	04/29/2024 14:02
Toluene-d8	101	70-130	04/29/2024 14:02
4-BFB	102	70-130	04/29/2024 14:02

Analyst(s): TW

Analytical Comments: b1



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-5-W	2404L59-014B	Water	04/23/2024 15:00		GC28 04292412.D	292690
Analytes	Result	RL	DE	Date Analyzed		
Acetone	ND	40	1	04/29/2024 14:40		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/29/2024 14:40		
Benzene	ND	0.20	1	04/29/2024 14:40		
Bromobenzene	ND	0.50	1	04/29/2024 14:40		
Bromochloromethane	ND	0.50	1	04/29/2024 14:40		
Bromodichloromethane	ND	0.050	1	04/29/2024 14:40		
Bromoform	ND	0.50	1	04/29/2024 14:40		
Bromomethane	ND	0.50	1	04/29/2024 14:40		
2-Butanone (MEK)	ND	5.0	1	04/29/2024 14:40		
t-Butyl alcohol (TBA)	ND	5.0	1	04/29/2024 14:40		
n-Butyl benzene	ND	0.50	1	04/29/2024 14:40		
sec-Butyl benzene	ND	0.50	1	04/29/2024 14:40		
tert-Butyl benzene	ND	0.50	1	04/29/2024 14:40		
Carbon Disulfide	ND	0.50	1	04/29/2024 14:40		
Carbon Tetrachloride	ND	0.050	1	04/29/2024 14:40		
Chlorobenzene	ND	0.50	1	04/29/2024 14:40		
Chloroethane	ND	0.50	1	04/29/2024 14:40		
Chloroform	ND	0.10	1	04/29/2024 14:40		
Chloromethane	ND	0.50	1	04/29/2024 14:40		
2-Chlorotoluene	ND	0.50	1	04/29/2024 14:40		
4-Chlorotoluene	ND	0.50	1	04/29/2024 14:40		
Dibromochloromethane	ND	0.15	1	04/29/2024 14:40		
1,2-Dibromo-3-chloropropane	ND	0.020	1	04/29/2024 14:40		
1,2-Dibromoethane (EDB)	ND	0.040	1	04/29/2024 14:40		
Dibromomethane	ND	0.50	1	04/29/2024 14:40		
1,2-Dichlorobenzene	ND	0.50	1	04/29/2024 14:40		
1,3-Dichlorobenzene	ND	0.50	1	04/29/2024 14:40		
1,4-Dichlorobenzene	ND	0.50	1	04/29/2024 14:40		
Dichlorodifluoromethane	ND	0.50	1	04/29/2024 14:40		
1,1-Dichloroethane	ND	0.50	1	04/29/2024 14:40		
1,2-Dichloroethane (1,2-DCA)	ND	0.020	1	04/29/2024 14:40		
1,1-Dichloroethene	ND	0.010	1	04/29/2024 14:40		
cis-1,2-Dichloroethene	ND	0.50	1	04/29/2024 14:40		
trans-1,2-Dichloroethene	ND	0.50	1	04/29/2024 14:40		
1,2-Dichloropropane	ND	0.20	1	04/29/2024 14:40		
1,3-Dichloropropane	ND	0.50	1	04/29/2024 14:40		

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-5-W	2404L59-014B	Water	04/23/2024 15:00		GC28 04292412.D	292690
Analytes	Result	RL	DE	Date Analyzed		
2,2-Dichloropropane	ND	0.50	1	04/29/2024 14:40		
1,1-Dichloropropene	ND	0.50	1	04/29/2024 14:40		
cis-1,3-Dichloropropene	ND	0.50	1	04/29/2024 14:40		
trans-1,3-Dichloropropene	ND	0.50	1	04/29/2024 14:40		
Diisopropyl ether (DIPE)	ND	0.50	1	04/29/2024 14:40		
Ethylbenzene	ND	0.50	1	04/29/2024 14:40		
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	04/29/2024 14:40		
Freon 113	ND	0.50	1	04/29/2024 14:40		
Hexachlorobutadiene	ND	0.50	1	04/29/2024 14:40		
Hexachloroethane	ND	0.20	1	04/29/2024 14:40		
2-Hexanone	ND	0.50	1	04/29/2024 14:40		
Isopropylbenzene	ND	0.50	1	04/29/2024 14:40		
4-Isopropyl toluene	ND	0.50	1	04/29/2024 14:40		
Methyl-t-butyl ether (MTBE)	ND	0.50	1	04/29/2024 14:40		
Methylene chloride	ND	2.0	1	04/29/2024 14:40		
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	04/29/2024 14:40		
Naphthalene	ND	0.30	1	04/29/2024 14:40		
n-Propyl benzene	ND	0.50	1	04/29/2024 14:40		
Styrene	ND	2.0	1	04/29/2024 14:40		
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/29/2024 14:40		
1,1,2,2-Tetrachloroethane	ND	0.020	1	04/29/2024 14:40		
Tetrachloroethene	ND	0.20	1	04/29/2024 14:40		
Toluene	ND	0.50	1	04/29/2024 14:40		
1,2,3-Trichlorobenzene	ND	0.50	1	04/29/2024 14:40		
1,2,4-Trichlorobenzene	ND	0.50	1	04/29/2024 14:40		
1,1,1-Trichloroethane	ND	0.50	1	04/29/2024 14:40		
1,1,2-Trichloroethane	ND	0.20	1	04/29/2024 14:40		
Trichloroethene	ND	0.50	1	04/29/2024 14:40		
Trichlorofluoromethane	ND	0.50	1	04/29/2024 14:40		
1,2,3-Trichloropropane	ND	0.0050	1	04/29/2024 14:40		
1,2,4-Trimethylbenzene	ND	0.50	1	04/29/2024 14:40		
1,3,5-Trimethylbenzene	ND	0.50	1	04/29/2024 14:40		
Vinyl Chloride	ND	0.0050	1	04/29/2024 14:40		
m,p-Xylene	ND	0.50	1	04/29/2024 14:40		
o-Xylene	ND	0.50	1	04/29/2024 14:40		
Xylenes, Total	ND	0.50	1	04/29/2024 14:40		

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-W	2404L59-014B	Water	04/23/2024 15:00	GC28 04292412.D	292690

Analytes	Result	RL	DE	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	99	70-130		04/29/2024 14:40
Toluene-d8	100	70-130		04/29/2024 14:40
4-BFB	102	70-130		04/29/2024 14:40

Analyst(s): TW



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-6-W	2404L59-015B	Water	04/23/2024 15:10		GC28 04292413.D	292690
Analytes	Result	RL	DE	Date Analyzed		
Acetone	ND	40	1	04/29/2024 15:19		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/29/2024 15:19		
Benzene	ND	0.20	1	04/29/2024 15:19		
Bromobenzene	ND	0.50	1	04/29/2024 15:19		
Bromochloromethane	ND	0.50	1	04/29/2024 15:19		
Bromodichloromethane	ND	0.050	1	04/29/2024 15:19		
Bromoform	ND	0.50	1	04/29/2024 15:19		
Bromomethane	ND	0.50	1	04/29/2024 15:19		
2-Butanone (MEK)	ND	5.0	1	04/29/2024 15:19		
t-Butyl alcohol (TBA)	ND	5.0	1	04/29/2024 15:19		
n-Butyl benzene	ND	0.50	1	04/29/2024 15:19		
sec-Butyl benzene	ND	0.50	1	04/29/2024 15:19		
tert-Butyl benzene	ND	0.50	1	04/29/2024 15:19		
Carbon Disulfide	ND	0.50	1	04/29/2024 15:19		
Carbon Tetrachloride	ND	0.050	1	04/29/2024 15:19		
Chlorobenzene	ND	0.50	1	04/29/2024 15:19		
Chloroethane	ND	0.50	1	04/29/2024 15:19		
Chloroform	ND	0.10	1	04/29/2024 15:19		
Chloromethane	ND	0.50	1	04/29/2024 15:19		
2-Chlorotoluene	ND	0.50	1	04/29/2024 15:19		
4-Chlorotoluene	ND	0.50	1	04/29/2024 15:19		
Dibromochloromethane	ND	0.15	1	04/29/2024 15:19		
1,2-Dibromo-3-chloropropane	ND	0.020	1	04/29/2024 15:19		
1,2-Dibromoethane (EDB)	ND	0.040	1	04/29/2024 15:19		
Dibromomethane	ND	0.50	1	04/29/2024 15:19		
1,2-Dichlorobenzene	ND	0.50	1	04/29/2024 15:19		
1,3-Dichlorobenzene	ND	0.50	1	04/29/2024 15:19		
1,4-Dichlorobenzene	ND	0.50	1	04/29/2024 15:19		
Dichlorodifluoromethane	ND	0.50	1	04/29/2024 15:19		
1,1-Dichloroethane	ND	0.50	1	04/29/2024 15:19		
1,2-Dichloroethane (1,2-DCA)	ND	0.020	1	04/29/2024 15:19		
1,1-Dichloroethene	ND	0.010	1	04/29/2024 15:19		
cis-1,2-Dichloroethene	ND	0.50	1	04/29/2024 15:19		
trans-1,2-Dichloroethene	ND	0.50	1	04/29/2024 15:19		
1,2-Dichloropropane	ND	0.20	1	04/29/2024 15:19		
1,3-Dichloropropane	ND	0.50	1	04/29/2024 15:19		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-6-W	2404L59-015B	Water	04/23/2024 15:10		GC28 04292413.D	292690
Analytes	Result	RL	DE	Date Analyzed		
2,2-Dichloropropane	ND	0.50	1	04/29/2024 15:19		
1,1-Dichloropropene	ND	0.50	1	04/29/2024 15:19		
cis-1,3-Dichloropropene	ND	0.50	1	04/29/2024 15:19		
trans-1,3-Dichloropropene	ND	0.50	1	04/29/2024 15:19		
Diisopropyl ether (DIPE)	ND	0.50	1	04/29/2024 15:19		
Ethylbenzene	ND	0.50	1	04/29/2024 15:19		
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	04/29/2024 15:19		
Freon 113	ND	0.50	1	04/29/2024 15:19		
Hexachlorobutadiene	ND	0.50	1	04/29/2024 15:19		
Hexachloroethane	ND	0.20	1	04/29/2024 15:19		
2-Hexanone	ND	0.50	1	04/29/2024 15:19		
Isopropylbenzene	ND	0.50	1	04/29/2024 15:19		
4-Isopropyl toluene	ND	0.50	1	04/29/2024 15:19		
Methyl-t-butyl ether (MTBE)	ND	0.50	1	04/29/2024 15:19		
Methylene chloride	ND	2.0	1	04/29/2024 15:19		
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	04/29/2024 15:19		
Naphthalene	ND	0.30	1	04/29/2024 15:19		
n-Propyl benzene	ND	0.50	1	04/29/2024 15:19		
Styrene	ND	2.0	1	04/29/2024 15:19		
1,1,1,2-Tetrachloroethane	ND	0.50	1	04/29/2024 15:19		
1,1,2,2-Tetrachloroethane	ND	0.020	1	04/29/2024 15:19		
Tetrachloroethene	ND	0.20	1	04/29/2024 15:19		
Toluene	ND	0.50	1	04/29/2024 15:19		
1,2,3-Trichlorobenzene	ND	0.50	1	04/29/2024 15:19		
1,2,4-Trichlorobenzene	ND	0.50	1	04/29/2024 15:19		
1,1,1-Trichloroethane	ND	0.50	1	04/29/2024 15:19		
1,1,2-Trichloroethane	ND	0.20	1	04/29/2024 15:19		
Trichloroethene	ND	0.50	1	04/29/2024 15:19		
Trichlorofluoromethane	ND	0.50	1	04/29/2024 15:19		
1,2,3-Trichloropropane	ND	0.0050	1	04/29/2024 15:19		
1,2,4-Trimethylbenzene	ND	0.50	1	04/29/2024 15:19		
1,3,5-Trimethylbenzene	ND	0.50	1	04/29/2024 15:19		
Vinyl Chloride	ND	0.0050	1	04/29/2024 15:19		
m,p-Xylene	ND	0.50	1	04/29/2024 15:19		
o-Xylene	ND	0.50	1	04/29/2024 15:19		
Xylenes, Total	ND	0.50	1	04/29/2024 15:19		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-W	2404L59-015B	Water	04/23/2024 15:10	GC28 04292413.D	292690

<u>Analytes</u>	<u>Result</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
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<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	99	70-130	04/29/2024 15:19
Toluene-d8	100	70-130	04/29/2024 15:19
4-BFB	101	70-130	04/29/2024 15:19

Analyst(s): TW

Analytical Comments: b1



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-7-W	2404L59-016B	Water	04/23/2024 15:20		GC28 04292414.D	292690
Analytes	Result	RL	DE	Date Analyzed		
Acetone	ND	40	1	04/29/2024 15:57		
tert-Amyl methyl ether (TAME)	ND	0.50	1	04/29/2024 15:57		
Benzene	ND	0.20	1	04/29/2024 15:57		
Bromobenzene	ND	0.50	1	04/29/2024 15:57		
Bromochloromethane	ND	0.50	1	04/29/2024 15:57		
Bromodichloromethane	ND	0.050	1	04/29/2024 15:57		
Bromoform	ND	0.50	1	04/29/2024 15:57		
Bromomethane	ND	0.50	1	04/29/2024 15:57		
2-Butanone (MEK)	ND	5.0	1	04/29/2024 15:57		
t-Butyl alcohol (TBA)	ND	5.0	1	04/29/2024 15:57		
n-Butyl benzene	ND	0.50	1	04/29/2024 15:57		
sec-Butyl benzene	ND	0.50	1	04/29/2024 15:57		
tert-Butyl benzene	ND	0.50	1	04/29/2024 15:57		
Carbon Disulfide	ND	0.50	1	04/29/2024 15:57		
Carbon Tetrachloride	ND	0.050	1	04/29/2024 15:57		
Chlorobenzene	ND	0.50	1	04/29/2024 15:57		
Chloroethane	ND	0.50	1	04/29/2024 15:57		
Chloroform	ND	0.10	1	04/29/2024 15:57		
Chloromethane	ND	0.50	1	04/29/2024 15:57		
2-Chlorotoluene	ND	0.50	1	04/29/2024 15:57		
4-Chlorotoluene	ND	0.50	1	04/29/2024 15:57		
Dibromochloromethane	ND	0.15	1	04/29/2024 15:57		
1,2-Dibromo-3-chloropropane	ND	0.020	1	04/29/2024 15:57		
1,2-Dibromoethane (EDB)	ND	0.040	1	04/29/2024 15:57		
Dibromomethane	ND	0.50	1	04/29/2024 15:57		
1,2-Dichlorobenzene	ND	0.50	1	04/29/2024 15:57		
1,3-Dichlorobenzene	ND	0.50	1	04/29/2024 15:57		
1,4-Dichlorobenzene	ND	0.50	1	04/29/2024 15:57		
Dichlorodifluoromethane	ND	0.50	1	04/29/2024 15:57		
1,1-Dichloroethane	ND	0.50	1	04/29/2024 15:57		
1,2-Dichloroethane (1,2-DCA)	ND	0.020	1	04/29/2024 15:57		
1,1-Dichloroethene	ND	0.010	1	04/29/2024 15:57		
cis-1,2-Dichloroethene	ND	0.50	1	04/29/2024 15:57		
trans-1,2-Dichloroethene	ND	0.50	1	04/29/2024 15:57		
1,2-Dichloropropane	ND	0.20	1	04/29/2024 15:57		
1,3-Dichloropropane	ND	0.50	1	04/29/2024 15:57		

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-7-W	2404L59-016B	Water	04/23/2024 15:20		GC28 04292414.D	292690
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>	
2,2-Dichloropropane	ND		0.50	1	04/29/2024 15:57	
1,1-Dichloropropene	ND		0.50	1	04/29/2024 15:57	
cis-1,3-Dichloropropene	ND		0.50	1	04/29/2024 15:57	
trans-1,3-Dichloropropene	ND		0.50	1	04/29/2024 15:57	
Diisopropyl ether (DIPE)	ND		0.50	1	04/29/2024 15:57	
Ethylbenzene	ND		0.50	1	04/29/2024 15:57	
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	04/29/2024 15:57	
Freon 113	ND		0.50	1	04/29/2024 15:57	
Hexachlorobutadiene	ND		0.50	1	04/29/2024 15:57	
Hexachloroethane	ND		0.20	1	04/29/2024 15:57	
2-Hexanone	ND		0.50	1	04/29/2024 15:57	
Isopropylbenzene	ND		0.50	1	04/29/2024 15:57	
4-Isopropyl toluene	ND		0.50	1	04/29/2024 15:57	
Methyl-t-butyl ether (MTBE)	1.4		0.50	1	04/29/2024 15:57	
Methylene chloride	ND		2.0	1	04/29/2024 15:57	
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	04/29/2024 15:57	
Naphthalene	ND		0.30	1	04/29/2024 15:57	
n-Propyl benzene	ND		0.50	1	04/29/2024 15:57	
Styrene	ND		2.0	1	04/29/2024 15:57	
1,1,1,2-Tetrachloroethane	ND		0.50	1	04/29/2024 15:57	
1,1,2,2-Tetrachloroethane	ND		0.020	1	04/29/2024 15:57	
Tetrachloroethene	ND		0.20	1	04/29/2024 15:57	
Toluene	ND		0.50	1	04/29/2024 15:57	
1,2,3-Trichlorobenzene	ND		0.50	1	04/29/2024 15:57	
1,2,4-Trichlorobenzene	ND		0.50	1	04/29/2024 15:57	
1,1,1-Trichloroethane	ND		0.50	1	04/29/2024 15:57	
1,1,2-Trichloroethane	ND		0.20	1	04/29/2024 15:57	
Trichloroethene	ND		0.50	1	04/29/2024 15:57	
Trichlorofluoromethane	ND		0.50	1	04/29/2024 15:57	
1,2,3-Trichloropropane	ND		0.0050	1	04/29/2024 15:57	
1,2,4-Trimethylbenzene	ND		0.50	1	04/29/2024 15:57	
1,3,5-Trimethylbenzene	ND		0.50	1	04/29/2024 15:57	
Vinyl Chloride	ND		0.0050	1	04/29/2024 15:57	
m,p-Xylene	ND		0.50	1	04/29/2024 15:57	
o-Xylene	ND		0.50	1	04/29/2024 15:57	
Xylenes, Total	ND		0.50	1	04/29/2024 15:57	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/29/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-W	2404L59-016B	Water	04/23/2024 15:20	GC28 04292414.D	292690

Analytes	Result	RL	DE	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	97	70-130		04/29/2024 15:57
Toluene-d8	100	70-130		04/29/2024 15:57
4-BFB	100	70-130		04/29/2024 15:57

Analyst(s): TW



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/26/2024-05/01/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-1'	2404L59-003A	Soil	04/23/2024 12:11	GC19 05022432.D	292844

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	1.0	1.0	1	05/03/2024 00:40
MTBE	---	0.050	1	05/03/2024 00:40
Benzene	---	0.0050	1	05/03/2024 00:40
Toluene	---	0.0050	1	05/03/2024 00:40
Ethylbenzene	---	0.0050	1	05/03/2024 00:40
m,p-Xylene	---	0.010	1	05/03/2024 00:40
o-Xylene	---	0.0050	1	05/03/2024 00:40
Xylenes	---	0.0050	1	05/03/2024 00:40

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	77	62-126	05/03/2024 00:40

Analyst(s): IA Analytical Comments: d1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2.5'	2404L59-005A	Soil	04/23/2024 12:22	GC7 04302430.D	292556

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	04/30/2024 23:14
MTBE	---	0.050	1	04/30/2024 23:14
Benzene	---	0.0050	1	04/30/2024 23:14
Toluene	---	0.0050	1	04/30/2024 23:14
Ethylbenzene	---	0.0050	1	04/30/2024 23:14
m,p-Xylene	---	0.010	1	04/30/2024 23:14
o-Xylene	---	0.0050	1	04/30/2024 23:14
Xylenes	---	0.0050	1	04/30/2024 23:14

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorotoluene	80	62-126	04/30/2024 23:14

Analyst(s): IA



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	2404L59-010A	Water	04/23/2024 14:20	GC12 04292428.D	292757

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	4700	500	10	04/30/2024 02:24
MTBE	---	10	10	04/30/2024 02:24
Benzene	---	5.0	10	04/30/2024 02:24
Toluene	---	5.0	10	04/30/2024 02:24
Ethylbenzene	---	5.0	10	04/30/2024 02:24
m,p-Xylene	---	10	10	04/30/2024 02:24
o-Xylene	---	5.0	10	04/30/2024 02:24
Xylenes	---	5.0	10	04/30/2024 02:24

Surrogates	REC (%)	Qualifiers	Limits	
aaa-TFT	119	S	76-115	04/30/2024 02:24

Analyst(s): ALU

Analytical Comments: b1,c4,d1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	2404L59-011A	Water	04/23/2024 14:25	GC12 04292429.D	292757

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	04/30/2024 02:56
MTBE	---	1.0	1	04/30/2024 02:56
Benzene	---	0.50	1	04/30/2024 02:56
Toluene	---	0.50	1	04/30/2024 02:56
Ethylbenzene	---	0.50	1	04/30/2024 02:56
m,p-Xylene	---	1.0	1	04/30/2024 02:56
o-Xylene	---	0.50	1	04/30/2024 02:56
Xylenes	---	0.50	1	04/30/2024 02:56

Surrogates	REC (%)	Limits	
aaa-TFT	102	76-115	04/30/2024 02:56

Analyst(s): ALU

Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	2404L59-012A	Water	04/23/2024 14:35	GC12 04292430.D	292757

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	04/30/2024 03:28
MTBE	---	1.0	1	04/30/2024 03:28
Benzene	---	0.50	1	04/30/2024 03:28
Toluene	---	0.50	1	04/30/2024 03:28
Ethylbenzene	---	0.50	1	04/30/2024 03:28
m,p-Xylene	---	1.0	1	04/30/2024 03:28
o-Xylene	---	0.50	1	04/30/2024 03:28
Xylenes	---	0.50	1	04/30/2024 03:28

Surrogates	REC (%)	Limits	
aaa-TFT	99	76-115	04/30/2024 03:28

Analyst(s): ALU

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	2404L59-013A	Water	04/23/2024 14:50	GC12 04292431.D	292757

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	04/30/2024 04:00
MTBE	---	1.0	1	04/30/2024 04:00
Benzene	---	0.50	1	04/30/2024 04:00
Toluene	---	0.50	1	04/30/2024 04:00
Ethylbenzene	---	0.50	1	04/30/2024 04:00
m,p-Xylene	---	1.0	1	04/30/2024 04:00
o-Xylene	---	0.50	1	04/30/2024 04:00
Xylenes	---	0.50	1	04/30/2024 04:00

Surrogates	REC (%)	Limits	
aaa-TFT	94	76-115	04/30/2024 04:00

Analyst(s): ALU

Analytical Comments: b1

(Cont.)

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-W	2404L59-014A	Water	04/23/2024 15:00	GC12 04302410.D	292850

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	04/30/2024 16:23
MTBE	---	1.0	1	04/30/2024 16:23
Benzene	---	0.50	1	04/30/2024 16:23
Toluene	---	0.50	1	04/30/2024 16:23
Ethylbenzene	---	0.50	1	04/30/2024 16:23
m,p-Xylene	---	1.0	1	04/30/2024 16:23
o-Xylene	---	0.50	1	04/30/2024 16:23
Xylenes	---	0.50	1	04/30/2024 16:23

Surrogates	REC (%)	Limits	
aaa-TFT	95	76-115	04/30/2024 16:23

Analyst(s): ALU

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-W	2404L59-015A	Water	04/23/2024 15:10	GC12 04302412.D	292850

Analytes	Result	RL	DE	Date Analyzed
TPH(g) (C6-C12)	ND	50	1	04/30/2024 17:31
MTBE	---	1.0	1	04/30/2024 17:31
Benzene	---	0.50	1	04/30/2024 17:31
Toluene	---	0.50	1	04/30/2024 17:31
Ethylbenzene	---	0.50	1	04/30/2024 17:31
m,p-Xylene	---	1.0	1	04/30/2024 17:31
o-Xylene	---	0.50	1	04/30/2024 17:31
Xylenes	---	0.50	1	04/30/2024 17:31

Surrogates	REC (%)	Limits	
aaa-TFT	99	76-115	04/30/2024 17:31

Analyst(s): ALU

Analytical Comments: b1

(Cont.)

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
SB-7-W	2404L59-016A	Water	04/23/2024 15:20		GC12 04302413.D	292850
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>		<u>Date Analyzed</u>
TPH(g) (C6-C12)	ND		50	1		04/30/2024 18:03
MTBE	---		1.0	1		04/30/2024 18:03
Benzene	---		0.50	1		04/30/2024 18:03
Toluene	---		0.50	1		04/30/2024 18:03
Ethylbenzene	---		0.50	1		04/30/2024 18:03
m,p-Xylene	---		1.0	1		04/30/2024 18:03
o-Xylene	---		0.50	1		04/30/2024 18:03
Xylenes	---		0.50	1		04/30/2024 18:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
aaa-TFT	98		76-115			04/30/2024 18:03
<u>Analyst(s):</u> ALU						



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/26/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-1'	2404L59-003A	Soil	04/23/2024 12:11	GC31B 04292457.D	292554

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	20	10	04/30/2024 03:35
TPH-Motor Oil (C18-C36)	300	100	10	04/30/2024 03:35

Surrogates	REC (%)	Limits	
C9	87	70-130	04/30/2024 03:35

Analyst(s): JNG

Analytical Comments: a3,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-2.5'	2404L59-005A	Soil	04/23/2024 12:22	GC31A 04292424.D	292554

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	2.0	1	04/29/2024 16:52
TPH-Motor Oil (C18-C36)	ND	10	1	04/29/2024 16:52

Surrogates	REC (%)	Limits	
C9	107	70-130	04/29/2024 16:52

Analyst(s): JNG



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/26/2024-04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-W	2404L59-010A	Water	04/23/2024 14:20	GC31A 04302446.D	292779

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	1500	200	1	04/30/2024 22:47
TPH-Motor Oil (C18-C36)	2600	1000	1	04/30/2024 22:47

Surrogates	REC (%)	Qualifiers	Limits	
C9	20	S	53-149	04/30/2024 22:47

Analyst(s): JNG

Analytical Comments: b1,c4,e2,e4,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-W	2404L59-011A	Water	04/23/2024 14:25	GC6B 04302449.D	292549

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	2200	1500	5	05/01/2024 02:22
TPH-Motor Oil (C18-C36)	15,000	7500	5	05/01/2024 02:22

Surrogates	REC (%)	Limits	
C9	120	53-149	05/01/2024 02:22

Analyst(s): JNG

Analytical Comments: b1,e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-W	2404L59-012A	Water	04/23/2024 14:35	GC31B 04302443.D	292779

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	04/30/2024 22:09
TPH-Motor Oil (C18-C36)	ND	500	1	04/30/2024 22:09

Surrogates	REC (%)	Qualifiers	Limits	
C9	31	S	53-149	04/30/2024 22:09

Analyst(s): JNG

Analytical Comments: c14

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/26/2024-04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-W	2404L59-013A	Water	04/23/2024 14:50	GC31A 04302444.D	292779

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	04/30/2024 22:09
TPH-Motor Oil (C18-C36)	ND	500	1	04/30/2024 22:09

Surrogates	REC (%)	Qualifiers	Limits	
C9	19	S	53-149	04/30/2024 22:09

Analyst(s): JNG

Analytical Comments: b1,c14

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-W	2404L59-014A	Water	04/23/2024 15:00	GC31B 04292439.D	292549

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	1200	100	1	04/29/2024 21:56
TPH-Motor Oil (C18-C36)	ND	500	1	04/29/2024 21:56

Surrogates	REC (%)	Limits	
C9	89	53-149	04/29/2024 21:56

Analyst(s): JNG

Analytical Comments: e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-W	2404L59-015A	Water	04/23/2024 15:10	GC31A 04302442.D	292779

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	04/30/2024 21:30
TPH-Motor Oil (C18-C36)	ND	500	1	04/30/2024 21:30

Surrogates	REC (%)	Limits	
C9	56	53-149	04/30/2024 21:30

Analyst(s): JNG

Analytical Comments: b1,c14

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Analytical Report

Client: AEI Consultants
Date Received: 04/24/2024 15:33
Date Prepared: 04/26/2024-04/30/2024
Project: 488291; Danco Communities

WorkOrder: 2404L59
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-W	2404L59-016A	Water	04/23/2024 15:20	GC31B 04302441.D	292779

Analytes	Result	RL	DE	Date Analyzed
TPH-Diesel (C10-C23)	ND	100	1	04/30/2024 21:30
TPH-Motor Oil (C18-C36)	ND	500	1	04/30/2024 21:30

Surrogates	REC (%)	Qualifiers	Limits	
C9	33	S	53-149	04/30/2024 21:30

Analyst(s): JNG

Analytical Comments: c14



Quality Control Report

Client: AEI Consultants

Date Prepared: 04/29/2024

Date Analyzed: 04/29/2024

Instrument: GC23

Matrix: Soil

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292662

Extraction Method: SW3550B

Analytical Method: SW8082A

Unit: mg/kg

Sample ID: MB/LCS/LCSD-292662

QC Summary Report for SW8082A

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aroclor1016	ND	0.0016	0.0050	-	-	-
Aroclor1221	ND	0.0016	0.0050	-	-	-
Aroclor1232	ND	0.0016	0.0050	-	-	-
Aroclor1242	ND	0.0016	0.0050	-	-	-
Aroclor1248	ND	0.0016	0.0050	-	-	-
Aroclor1254	ND	0.0016	0.0050	-	-	-
Aroclor1260	ND	0.0016	0.0050	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0045			0.005	91	28-170
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aroclor1016	0.013	0.014	0.015	89	90	49-120	0.731	20
Aroclor1260	0.012	0.012	0.015	81	79	48-160	3.42	20

Surrogate Recovery

Decachlorobiphenyl	0.0048	0.0048	0.0050	95	96	28-170	0.904	20
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Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	6.4	40	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.11	0.50	-	-	-
Benzene	ND	0.034	0.20	-	-	-
Bromobenzene	ND	0.090	0.50	-	-	-
Bromochloromethane	ND	0.14	0.50	-	-	-
Bromodichloromethane	ND	0.022	0.050	-	-	-
Bromoform	ND	0.10	0.50	-	-	-
Bromomethane	ND	0.26	0.50	-	-	-
2-Butanone (MEK)	ND	1.2	5.0	-	-	-
t-Butyl alcohol (TBA)	ND	1.4	5.0	-	-	-
n-Butyl benzene	ND	0.20	0.50	-	-	-
sec-Butyl benzene	ND	0.14	0.50	-	-	-
tert-Butyl benzene	ND	0.17	0.50	-	-	-
Carbon Disulfide	ND	0.14	0.50	-	-	-
Carbon Tetrachloride	ND	0.033	0.050	-	-	-
Chlorobenzene	ND	0.092	0.50	-	-	-
Chloroethane	ND	0.23	0.50	-	-	-
Chloroform	ND	0.015	0.10	-	-	-
Chloromethane	ND	0.18	0.50	-	-	-
2-Chlorotoluene	ND	0.11	0.50	-	-	-
4-Chlorotoluene	ND	0.11	0.50	-	-	-
Dibromochloromethane	ND	0.069	0.15	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0056	0.020	-	-	-
1,2-Dibromoethane (EDB)	ND	0.015	0.040	-	-	-
Dibromomethane	ND	0.12	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.11	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.12	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.11	0.50	-	-	-
Dichlorodifluoromethane	ND	0.15	0.50	-	-	-
1,1-Dichloroethane	ND	0.14	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.011	0.020	-	-	-
1,1-Dichloroethene	ND	0.0036	0.010	-	-	-
cis-1,2-Dichloroethene	ND	0.12	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.12	0.50	-	-	-
1,2-Dichloropropane	ND	0.029	0.20	-	-	-
1,3-Dichloropropane	ND	0.14	0.50	-	-	-
2,2-Dichloropropane	ND	0.20	0.50	-	-	-
1,1-Dichloropropene	ND	0.19	0.50	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.13	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.20	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.21	0.50	-	-	-
Ethylbenzene	ND	0.14	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.20	0.50	-	-	-
Freon 113	ND	0.13	0.50	-	-	-
Hexachlorobutadiene	ND	0.052	0.50	-	-	-
Hexachloroethane	ND	0.079	0.20	-	-	-
2-Hexanone	ND	0.23	0.50	-	-	-
Isopropylbenzene	ND	0.17	0.50	-	-	-
4-Isopropyl toluene	ND	0.22	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.14	0.50	-	-	-
Methylene chloride	ND	0.75	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.16	0.50	-	-	-
Naphthalene	ND	0.17	0.30	-	-	-
n-Propyl benzene	ND	0.14	0.50	-	-	-
Styrene	ND	0.16	2.0	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.14	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.018	0.020	-	-	-
Tetrachloroethene	ND	0.028	0.20	-	-	-
Toluene	ND	0.096	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.14	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.16	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.14	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.026	0.20	-	-	-
Trichloroethene	ND	0.030	0.50	-	-	-
Trichlorofluoromethane	ND	0.13	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.0030	0.0050	-	-	-
1,2,4-Trimethylbenzene	ND	0.17	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.14	0.50	-	-	-
Vinyl Chloride	ND	0.0027	0.0050	-	-	-
m,p-Xylene	ND	0.25	0.50	-	-	-
o-Xylene	ND	0.12	0.50	-	-	-

(Cont.)



Quality Control Report

Client:	AEI Consultants	WorkOrder:	2404L59
Date Prepared:	04/29/2024	BatchID:	292690
Date Analyzed:	04/29/2024	Extraction Method:	SW5030B
Instrument:	GC28	Analytical Method:	SW8260D
Matrix:	Water	Unit:	µg/L
Project:	488291; Danco Communities	Sample ID:	MB/LCS/LCSD-292690 2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	24			25	97	70-130
Toluene-d8	26			25	103	70-130
4-BFB	2.8			2.5	112	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	34	32	40	85	81	60-130	5.12	20
tert-Amyl methyl ether (TAME)	4.0	4.0	4	101	100	60-130	1.30	20
Benzene	3.8	3.8	4	94	94	65-130	0.341	20
Bromobenzene	4.1	4.1	4	102	103	60-130	1.36	20
Bromochloromethane	3.8	3.7	4	96	93	65-130	3.12	20
Bromodichloromethane	4.1	4.2	4	103	104	60-130	1.67	20
Bromoform	3.9	4.0	4	96	99	70-130	2.67	20
Bromomethane	4.0	3.9	4	101	97	50-130	3.68	20
2-Butanone (MEK)	13	13	16	80	81	60-130	1.84	20
t-Butyl alcohol (TBA)	15	16	16	96	99	50-130	2.85	20
n-Butyl benzene	4.7	4.4	4	118	110	60-130	6.31	20
sec-Butyl benzene	4.6	4.6	4	116	115	60-130	0.845	20
tert-Butyl benzene	4.1	4.1	4	102	103	60-130	0.722	20
Carbon Disulfide	4.1	3.9	4	103	98	60-130	5.04	20
Carbon Tetrachloride	4.4	4.4	4	110	111	70-130	0.411	20
Chlorobenzene	4.2	4.2	4	106	106	65-130	0.207	20
Chloroethane	3.6	3.7	4	90	91	60-140	1.43	20
Chloroform	4.2	4.2	4	104	104	70-130	0.336	20
Chloromethane	3.1	3.0	4	78	75	50-130	3.62	20
2-Chlorotoluene	4.1	4.1	4	102	104	60-130	1.09	20
4-Chlorotoluene	4.3	4.3	4	107	106	60-130	0.977	20
Dibromochloromethane	4.3	4.3	4	107	107	70-130	0.807	20
1,2-Dibromo-3-chloropropane	2.0	2.1	2	100	103	50-130	3.47	20
1,2-Dibromoethane (EDB)	2.0	2.0	2	100	102	60-130	1.17	20
Dibromomethane	3.8	3.9	4	96	99	60-130	3.26	20
1,2-Dichlorobenzene	3.8	3.9	4	94	98	65-130	4.37	20
1,3-Dichlorobenzene	4.0	4.1	4	100	101	70-130	1.13	20
1,4-Dichlorobenzene	4.0	4.1	4	101	103	65-130	2.01	20
Dichlorodifluoromethane	3.2	3.3	4	81	81	40-140	0.376	20
1,1-Dichloroethane	4.1	4.0	4	101	101	70-130	0.203	20
1,2-Dichloroethane (1,2-DCA)	3.9	4.0	4	98	99	70-130	0.846	20
1,1-Dichloroethene	4.0	3.9	4	100	97	60-130	3.34	20
cis-1,2-Dichloroethene	4.0	4.0	4	100	99	60-130	1.10	20
trans-1,2-Dichloroethene	4.0	3.9	4	101	97	70-130	4.17	20
1,2-Dichloropropane	4.0	4.0	4	99	100	60-130	1.08	20
1,3-Dichloropropane	4.2	4.3	4	106	107	60-130	1.11	20
2,2-Dichloropropane	4.7	4.4	4	117	111	60-130	4.67	20
1,1-Dichloropropene	4.2	4.2	4	105	104	60-130	1.20	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	4.4	4.4	4	111	111	60-130	0.398	20
trans-1,3-Dichloropropene	4.4	4.5	4	111	112	60-130	0.511	20
Diisopropyl ether (DIPE)	3.7	3.7	4	93	93	60-130	0.155	20
Ethylbenzene	4.3	4.3	4	109	108	60-130	0.603	20
Ethyl tert-butyl ether (ETBE)	3.9	3.9	4	97	97	60-130	0.314	20
Freon 113	4.0	3.9	4	101	96	60-130	4.26	20
Hexachlorobutadiene	4.6	4.8	4	114	120	60-130	5.09	20
Hexachloroethane	4.4	4.5	4	110	113	50-130	2.04	20
2-Hexanone	3.8	3.9	4	96	98	50-130	2.17	20
Isopropylbenzene	4.6	4.6	4	116	115	60-130	0.791	20
4-Isopropyl toluene	4.5	4.4	4	113	111	60-130	1.72	20
Methyl-t-butyl ether (MTBE)	3.8	3.8	4	96	95	60-130	0.559	20
Methylene chloride	3.5	3.4	4	87	84	60-130	3.95	20
4-Methyl-2-pentanone (MIBK)	3.8	3.8	4	94	95	50-130	1.19	20
Naphthalene	4.1	4.1	4	104	103	60-130	0.418	20
n-Propyl benzene	4.1	4.2	4	103	104	60-130	0.902	20
Styrene	4.1	4.1	4	101	102	60-130	0.256	20
1,1,1,2-Tetrachloroethane	4.2	4.3	4	104	106	60-130	2.26	20
1,1,2,2-Tetrachloroethane	4.2	4.3	4	105	109	60-130	3.44	20
Tetrachloroethene	4.2	4.1	4	104	104	70-130	0.671	20
Toluene	4.2	4.2	4	106	105	70-130	0.724	20
1,2,3-Trichlorobenzene	4.4	4.4	4	109	109	60-130	0.0188	20
1,2,4-Trichlorobenzene	4.2	4.2	4	104	105	60-130	0.405	20
1,1,1-Trichloroethane	4.4	4.3	4	109	107	70-130	2.11	20
1,1,2-Trichloroethane	4.2	4.3	4	106	107	70-130	0.468	20
Trichloroethene	3.9	3.9	4	99	98	65-130	0.219	20
Trichlorofluoromethane	4.2	4.0	4	104	101	60-130	2.75	20
1,2,3-Trichloropropane	1.9	2.0	2	97	100	60-130	2.76	20
1,2,4-Trimethylbenzene	4.6	4.3	4	115	107	60-130	7.30	20
1,3,5-Trimethylbenzene	4.6	4.4	4	115	111	60-130	4.17	20
Vinyl Chloride	1.6	1.6	2	79	79	60-130	0.664	20
m,p-Xylene	8.5	8.4	8	107	105	60-130	1.60	20
o-Xylene	4.4	4.3	4	110	107	60-130	2.88	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	25	25	25	101	101	70-130	0.905	20
Toluene-d8	26	26	25	104	103	70-130	0.998	20
4-BFB	3.0	3.0	2.5	119	118	70-130	0.526	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	1	42	43	40	ND	104	107	60-140	2.86	20
tert-Amyl methyl ether (TAME)	1	4.3	4.4	4	ND	108	110	60-140	2.15	20
Benzene	1	4.0	4.0	4	ND	101	99	60-140	1.73	20
Bromobenzene	1	4.3	4.1	4	ND	108	103	60-140	4.22	20
Bromochloromethane	1	4.1	4.3	4	ND	103	107	60-140	3.80	20
Bromodichloromethane	1	4.4	4.4	4	ND	109	110	60-140	1.02	20
Bromoform	1	4.3	4.4	4	ND	105	105	50-140	0.563	20
Bromomethane	1	4.2	3.9	4	ND	104	97	40-140	7.40	20
2-Butanone (MEK)	1	16	17	16	ND	95	99	50-140	4.09	20
t-Butyl alcohol (TBA)	1	18	19	16	ND	113	120	50-140	6.04	20
n-Butyl benzene	1	4.9	4.4	4	ND	123	109	60-140	12.0	20
sec-Butyl benzene	1	4.9	4.6	4	ND	124	115	60-140	6.81	20
tert-Butyl benzene	1	4.2	4.0	4	ND	106	100	60-140	6.04	20
Carbon Disulfide	1	4.3	4.1	4	ND	108	103	60-140	5.14	20
Carbon Tetrachloride	1	4.5	4.4	4	ND	113	111	60-140	1.73	20
Chlorobenzene	1	4.4	4.2	4	ND	109	105	60-140	4.25	20
Chloroethane	1	4.0	3.8	4	ND	99	96	60-140	3.37	20
Chloroform	1	4.4	4.3	4	ND	109	108	60-140	1.51	20
Chloromethane	1	3.6	3.4	4	ND	90	84	60-140	7.07	20
2-Chlorotoluene	1	4.4	4.1	4	ND	110	102	60-140	7.95	20
4-Chlorotoluene	1	4.5	4.2	4	ND	112	105	60-140	7.13	20
Dibromochloromethane	1	4.5	4.5	4	ND	113	113	50-140	0.0839	20
1,2-Dibromo-3-chloropropane	1	2.4	2.5	2	ND	118	123	50-140	3.79	20
1,2-Dibromoethane (EDB)	1	2.2	2.2	2	ND	108	108	60-140	0.200	20
Dibromomethane	1	4.3	4.4	4	ND	108	111	60-140	3.00	20
1,2-Dichlorobenzene	1	4.1	4.0	4	ND	102	99	60-140	2.83	20
1,3-Dichlorobenzene	1	4.2	4.1	4	ND	106	103	60-140	3.28	20
1,4-Dichlorobenzene	1	4.3	4.1	4	ND	107	102	60-140	4.25	20
Dichlorodifluoromethane	1	3.3	3.2	4	ND	82	81	40-140	1.96	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,1-Dichloroethane	1	4.3	4.3	4	ND	107	106	60-140	0.768	20
1,2-Dichloroethane (1,2-DCA)	1	4.2	4.3	4	ND	106	108	60-140	1.65	20
1,1-Dichloroethene	1	4.2	4.0	4	ND	106	101	50-140	4.88	20
cis-1,2-Dichloroethene	1	4.2	4.2	4	ND	106	104	60-140	1.68	20
trans-1,2-Dichloroethene	1	4.3	4.2	4	ND	108	106	60-140	1.88	20
1,2-Dichloropropane	1	4.3	4.3	4	ND	108	108	60-140	0.157	20
1,3-Dichloropropane	1	4.5	4.4	4	ND	112	111	60-140	0.787	20
2,2-Dichloropropane	1	4.8	4.5	4	ND	119	113	60-140	5.14	20
1,1-Dichloropropene	1	4.4	4.3	4	ND	110	108	60-140	1.75	20
cis-1,3-Dichloropropene	1	4.5	4.4	4	ND	113	110	60-140	2.44	20
trans-1,3-Dichloropropene	1	4.6	4.6	4	ND	116	114	60-140	1.39	20
Diisopropyl ether (DIPE)	1	4.2	4.2	4	ND	105	104	60-140	0.618	20
Ethylbenzene	1	4.5	4.2	4	ND	112	106	60-140	5.31	20
Ethyl tert-butyl ether (ETBE)	1	4.2	4.4	4	ND	105	109	60-140	3.36	20
Freon 113	1	4.2	4.1	4	ND	105	103	60-140	1.72	20
Hexachlorobutadiene	1	4.8	4.7	4	ND	119	116	60-140	2.21	20
Hexachloroethane	1	4.6	4.4	4	ND	115	110	40-140	4.08	20
2-Hexanone	1	4.5	4.7	4	ND	113	118	50-140	4.35	20
Isopropylbenzene	1	4.7	4.4	4	ND	118	111	60-140	6.50	20
4-Isopropyl toluene	1	4.7	4.3	4	ND	118	108	60-140	9.21	20
Methyl-t-butyl ether (MTBE)	1	4.1	4.2	4	ND	104	105	60-140	1.06	20
Methylene chloride	1	3.8	3.7	4	ND	96	93	60-140	3.56	20
4-Methyl-2-pentanone (MIBK)	1	4.6	4.8	4	ND	114	120	50-140	4.54	20
Naphthalene	1	4.7	4.5	4	ND	116	112	50-140	3.70	20
n-Propyl benzene	1	4.4	4.1	4	ND	109	102	60-140	7.14	20
Styrene	1	4.3	4.1	4	ND	108	102	40-140	5.70	20
1,1,1,2-Tetrachloroethane	1	4.3	4.2	4	ND	107	105	60-140	1.34	20
1,1,2,2-Tetrachloroethane	1	4.7	4.8	4	ND	118	120	60-140	1.93	20
Tetrachloroethene	1	4.3	4.1	4	ND	108	102	60-140	5.54	20
Toluene	1	4.2	4.1	4	ND	106	102	60-140	3.50	20
1,2,3-Trichlorobenzene	1	4.6	4.4	4	ND	115	110	60-140	4.29	20
1,2,4-Trichlorobenzene	1	4.4	4.1	4	ND	109	104	60-140	4.79	20
1,1,1-Trichloroethane	1	4.4	4.3	4	ND	110	108	60-140	2.00	20
1,1,2-Trichloroethane	1	4.5	4.5	4	ND	114	113	60-140	0.279	20
Trichloroethene	1	4.3	4.2	4	ND	106	104	60-140	2.46	20
Trichlorofluoromethane	1	4.2	4.0	4	ND	105	100	60-140	5.80	20
1,2,3-Trichloropropane	1	2.1	2.2	2	ND	107	110	60-140	2.83	20
1,2,4-Trimethylbenzene	1	4.7	4.2	4	ND	117	104	60-140	12.1	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC28
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292690
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292690
2404L59-012BMS/MSD

QC Summary Report for SW8260D

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	1	4.8	4.2	4	ND	120	105	60-140	13.3	20
Vinyl Chloride	1	1.9	1.8	2	ND	95	90	60-140	5.56	20
m,p-Xylene	1	8.9	8.3	8	ND	112	104	60-140	7.22	20
o-Xylene	1	4.6	4.3	4	ND	114	107	60-140	6.33	20
Surrogate Recovery										
Dibromofluoromethane	1	25	26	25		100	103	70-140	2.96	20
Toluene-d8	1	25	25	25		101	100	70-140	0.844	20
4-BFB	1	2.6	2.7	2.5		105	106	70-140	1.19	20

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CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: AEI Consultants

Date Prepared: 04/29/2024

Date Analyzed: 04/29/2024

Instrument: GC16

Matrix: Water

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292694

Extraction Method: SW5030B

Analytical Method: SW8260D

Unit: µg/L

Sample ID: MB/LCS/LCSD-292694

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	6.4	40	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.11	0.50	-	-	-
Benzene	ND	0.034	0.20	-	-	-
Bromobenzene	ND	0.090	0.50	-	-	-
Bromochloromethane	ND	0.14	0.50	-	-	-
Bromodichloromethane	ND	0.022	0.050	-	-	-
Bromoform	ND	0.10	0.50	-	-	-
Bromomethane	ND	0.26	0.50	-	-	-
2-Butanone (MEK)	ND	1.2	5.0	-	-	-
t-Butyl alcohol (TBA)	ND	1.4	5.0	-	-	-
n-Butyl benzene	ND	0.20	0.50	-	-	-
sec-Butyl benzene	ND	0.14	0.50	-	-	-
tert-Butyl benzene	ND	0.17	0.50	-	-	-
Carbon Disulfide	ND	0.14	0.50	-	-	-
Carbon Tetrachloride	ND	0.033	0.050	-	-	-
Chlorobenzene	ND	0.092	0.50	-	-	-
Chloroethane	ND	0.23	0.50	-	-	-
Chloroform	ND	0.015	0.10	-	-	-
Chloromethane	ND	0.18	0.50	-	-	-
2-Chlorotoluene	ND	0.11	0.50	-	-	-
4-Chlorotoluene	ND	0.11	0.50	-	-	-
Dibromochloromethane	ND	0.069	0.15	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0056	0.020	-	-	-
1,2-Dibromoethane (EDB)	ND	0.015	0.040	-	-	-
Dibromomethane	ND	0.12	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.11	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.12	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.11	0.50	-	-	-
Dichlorodifluoromethane	ND	0.15	0.50	-	-	-
1,1-Dichloroethane	ND	0.14	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.011	0.020	-	-	-
1,1-Dichloroethene	ND	0.0036	0.010	-	-	-
cis-1,2-Dichloroethene	ND	0.12	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.12	0.50	-	-	-
1,2-Dichloropropane	ND	0.029	0.20	-	-	-
1,3-Dichloropropane	ND	0.14	0.50	-	-	-
2,2-Dichloropropane	ND	0.20	0.50	-	-	-
1,1-Dichloropropene	ND	0.19	0.50	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants

Date Prepared: 04/29/2024

Date Analyzed: 04/29/2024

Instrument: GC16

Matrix: Water

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292694

Extraction Method: SW5030B

Analytical Method: SW8260D

Unit: µg/L

Sample ID: MB/LCS/LCSD-292694

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.13	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.20	0.50	-	-	-
Diisopropyl ether (DIPE)	ND	0.21	0.50	-	-	-
Ethylbenzene	ND	0.14	0.50	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.20	0.50	-	-	-
Freon 113	ND	0.13	0.50	-	-	-
Hexachlorobutadiene	ND	0.052	0.50	-	-	-
Hexachloroethane	ND	0.079	0.20	-	-	-
2-Hexanone	ND	0.23	0.50	-	-	-
Isopropylbenzene	ND	0.17	0.50	-	-	-
4-Isopropyl toluene	ND	0.22	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.14	0.50	-	-	-
Methylene chloride	ND	0.75	2.0	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.16	0.50	-	-	-
Naphthalene	ND	0.17	0.30	-	-	-
n-Propyl benzene	ND	0.14	0.50	-	-	-
Styrene	ND	0.16	2.0	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.14	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.018	0.020	-	-	-
Tetrachloroethene	ND	0.028	0.20	-	-	-
Toluene	ND	0.096	0.50	-	-	-
1,2,3-Trichlorobenzene	ND	0.14	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.16	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.14	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.026	0.20	-	-	-
Trichloroethene	ND	0.030	0.50	-	-	-
Trichlorofluoromethane	ND	0.13	0.50	-	-	-
1,2,3-Trichloropropane	ND	0.0030	0.0050	-	-	-
1,2,4-Trimethylbenzene	ND	0.17	0.50	-	-	-
1,3,5-Trimethylbenzene	ND	0.14	0.50	-	-	-
Vinyl Chloride	ND	0.0027	0.0050	-	-	-
m,p-Xylene	ND	0.25	0.50	-	-	-
o-Xylene	ND	0.12	0.50	-	-	-

(Cont.)



Quality Control Report

Client:	AEI Consultants	WorkOrder:	2404L59
Date Prepared:	04/29/2024	BatchID:	292694
Date Analyzed:	04/29/2024	Extraction Method:	SW5030B
Instrument:	GC16	Analytical Method:	SW8260D
Matrix:	Water	Unit:	µg/L
Project:	488291; Danco Communities	Sample ID:	MB/LCS/LCSD-292694

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	24			25	94	70-130
Toluene-d8	26			25	103	70-130
4-BFB	2.4			2.5	96	70-130



Quality Control Report

Client: AEI Consultants

Date Prepared: 04/29/2024

Date Analyzed: 04/29/2024

Instrument: GC16

Matrix: Water

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292694

Extraction Method: SW5030B

Analytical Method: SW8260D

Unit: µg/L

Sample ID: MB/LCS/LCSD-292694

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	33	35	40	83	87	60-130	4.16	20
tert-Amyl methyl ether (TAME)	3.2	3.5	4	81	86	60-130	6.16	20
Benzene	3.7	3.6	4	92	90	65-130	2.90	20
Bromobenzene	4.1	4.0	4	102	99	60-130	2.15	20
Bromochloromethane	3.8	4.0	4	94	100	65-130	5.97	20
Bromodichloromethane	3.4	3.4	4	84	84	60-130	0.177	20
Bromoform	2.6	2.7	4	64,F2	67,F2	70-130	4.89	20
Bromomethane	4.2	4.0	4	104	99	50-130	4.74	20
2-Butanone (MEK)	11	13	16	71	78	60-130	9.55	20
t-Butyl alcohol (TBA)	11	11	16	71	71	50-130	0.174	20
n-Butyl benzene	4.7	4.3	4	118	108	60-130	8.75	20
sec-Butyl benzene	4.5	4.2	4	113	105	60-130	7.34	20
tert-Butyl benzene	4.3	3.9	4	107	96	60-130	10.7	20
Carbon Disulfide	4.0	3.8	4	100	95	60-130	5.44	20
Carbon Tetrachloride	3.5	3.3	4	88	84	70-130	5.03	20
Chlorobenzene	4.3	4.1	4	107	103	65-130	3.80	20
Chloroethane	3.7	3.6	4	93	89	60-140	4.24	20
Chloroform	3.8	3.7	4	96	93	70-130	2.56	20
Chloromethane	4.4	4.2	4	110	106	50-130	3.70	20
2-Chlorotoluene	4.1	3.7	4	102	92	60-130	10.3	20
4-Chlorotoluene	4.3	4.0	4	108	100	60-130	7.94	20
Dibromochloromethane	3.2	3.2	4	79	79	70-130	0.393	20
1,2-Dibromo-3-chloropropane	1.4	1.5	2	72	73	50-130	1.84	20
1,2-Dibromoethane (EDB)	1.7	1.8	2	86	89	60-130	3.31	20
Dibromomethane	3.5	3.6	4	87	91	60-130	4.41	20
1,2-Dichlorobenzene	4.0	3.9	4	100	97	65-130	3.00	20
1,3-Dichlorobenzene	4.1	3.8	4	103	95	70-130	7.61	20
1,4-Dichlorobenzene	4.3	4.1	4	107	102	65-130	5.30	20
Dichlorodifluoromethane	3.4	3.3	4	85	83	40-140	1.50	20
1,1-Dichloroethane	4.0	3.9	4	100	97	70-130	3.63	20
1,2-Dichloroethane (1,2-DCA)	3.2	3.3	4	80	81	70-130	1.52	20
1,1-Dichloroethene	3.9	3.8	4	98	94	60-130	4.83	20
cis-1,2-Dichloroethene	4.1	4.0	4	103	100	60-130	2.35	20
trans-1,2-Dichloroethene	4.1	3.9	4	103	99	70-130	4.10	20
1,2-Dichloropropane	3.9	3.8	4	96	96	60-130	0.747	20
1,3-Dichloropropane	3.8	3.8	4	94	96	60-130	2.15	20
2,2-Dichloropropane	4.0	3.8	4	99	95	60-130	4.34	20
1,1-Dichloropropene	4.0	3.8	4	100	94	60-130	6.82	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/29/2024
Date Analyzed: 04/29/2024
Instrument: GC16
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292694
Extraction Method: SW5030B
Analytical Method: SW8260D
Unit: µg/L
Sample ID: MB/LCS/LCSD-292694

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	3.9	3.8	4	98	96	60-130	1.99	20
trans-1,3-Dichloropropene	3.5	3.5	4	88	88	60-130	0.617	20
Diisopropyl ether (DIPE)	3.6	3.6	4	90	91	60-130	0.910	20
Ethylbenzene	4.2	4.1	4	106	102	60-130	3.93	20
Ethyl tert-butyl ether (ETBE)	3.3	3.4	4	83	85	60-130	2.43	20
Freon 113	4.1	3.9	4	103	97	60-130	6.59	20
Hexachlorobutadiene	3.8	3.6	4	96	89	60-130	7.37	20
Hexachloroethane	3.6	3.3	4	90	83	50-130	7.78	20
2-Hexanone	3.0	3.2	4	74	81	50-130	8.39	20
Isopropylbenzene	4.5	4.0	4	111	100	60-130	10.3	20
4-Isopropyl toluene	4.5	4.2	4	113	105	60-130	7.43	20
Methyl-t-butyl ether (MTBE)	3.0	3.3	4	76	82	60-130	8.59	20
Methylene chloride	3.1	3.1	4	77	78	60-130	1.27	20
4-Methyl-2-pentanone (MIBK)	2.9	3.2	4	72	79	50-130	9.32	20
Naphthalene	3.6	3.6	4	91	90	60-130	0.859	20
n-Propyl benzene	4.5	4.0	4	113	100	60-130	12.6	20
Styrene	3.8	3.8	4	95	94	60-130	1.21	20
1,1,1,2-Tetrachloroethane	3.7	3.6	4	93	90	60-130	3.79	20
1,1,2,2-Tetrachloroethane	3.8	3.8	4	94	95	60-130	1.13	20
Tetrachloroethene	4.2	3.9	4	104	99	70-130	5.32	20
Toluene	4.2	4.1	4	105	101	70-130	3.59	20
1,2,3-Trichlorobenzene	4.0	3.8	4	99	95	60-130	4.47	20
1,2,4-Trichlorobenzene	4.1	3.8	4	102	96	60-130	6.91	20
1,1,1-Trichloroethane	3.4	3.3	4	86	82	70-130	4.98	20
1,1,2-Trichloroethane	3.9	4.0	4	98	99	70-130	1.39	20
Trichloroethene	4.3	4.2	4	107	104	65-130	3.07	20
Trichlorofluoromethane	4.0	3.2	4	100	80	60-130	21.9,F2	20
1,2,3-Trichloropropane	1.8	1.8	2	88	89	60-130	0.599	20
1,2,4-Trimethylbenzene	4.2	3.9	4	106	97	60-130	8.59	20
1,3,5-Trimethylbenzene	4.3	3.9	4	107	97	60-130	9.53	20
Vinyl Chloride	2.1	2.0	2	103	100	60-130	3.10	20
m,p-Xylene	8.4	8.1	8	105	101	60-130	3.13	20
o-Xylene	4.0	3.9	4	100	97	60-130	3.46	20

(Cont.)



Quality Control Report

Client: AEI Consultants

Date Prepared: 04/29/2024

Date Analyzed: 04/29/2024

Instrument: GC16

Matrix: Water

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292694

Extraction Method: SW5030B

Analytical Method: SW8260D

Unit: µg/L

Sample ID: MB/LCS/LCSD-292694

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	23	24	25	93	95	70-130	2.09	20
Toluene-d8	26	26	25	103	103	70-130	0.483	20
4-BFB	2.4	2.3	2.5	95	92	70-130	3.47	20



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/26/2024
Date Analyzed: 04/29/2024 - 04/30/2024
Instrument: GC7
Matrix: Soil
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292556
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-292556

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.48	1.0	-	-	-
MTBE	ND	0.0025	0.050	-	-	-
Benzene	ND	0.0014	0.0050	-	-	-
Toluene	ND	0.0021	0.0050	-	-	-
Ethylbenzene	ND	0.00093	0.0050	-	-	-
m,p-Xylene	ND	0.0024	0.010	-	-	-
o-Xylene	ND	0.00090	0.0050	-	-	-

Surrogate Recovery

2-Fluorotoluene	0.094			0.1	94	75-134
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.68	0.64	0.60	114	107	82-118	6.48	20
MTBE	0.083	0.079	0.10	83	79	61-119	5.75	20
Benzene	0.094	0.087	0.10	94	87	77-128	7.89	20
Toluene	0.097	0.091	0.10	97	91	74-132	6.90	20
Ethylbenzene	0.094	0.089	0.10	94	89	84-127	5.51	20
m,p-Xylene	0.20	0.19	0.20	98	95	80-120	3.45	20
o-Xylene	0.094	0.093	0.10	94	93	80-120	1.88	20

Surrogate Recovery

2-Fluorotoluene	0.096	0.092	0.10	96	92	75-134	4.13	20
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Quality Control Report

Client: AEI Consultants
Date Prepared: 05/01/2024
Date Analyzed: 05/02/2024 - 05/03/2024
Instrument: GC19, GC3
Matrix: Soil
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292844
Extraction Method: SW5035
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-292844

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	0.48	1.0	-	-	-
MTBE	ND	0.0025	0.050	-	-	-
Benzene	ND	0.0014	0.0050	-	-	-
Toluene	ND	0.0021	0.0050	-	-	-
Ethylbenzene	ND	0.00093	0.0050	-	-	-
m,p-Xylene	ND	0.0024	0.010	-	-	-
o-Xylene	ND	0.00090	0.0050	-	-	-

Surrogate Recovery

2-Fluorotoluene	0.11			0.1	107	75-134
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.52	0.52	0.60	87	87	82-118	0.277	20
MTBE	0.10	0.10	0.10	101	104	61-119	2.99	20
Benzene	0.091	0.098	0.10	91	98	77-128	7.02	20
Toluene	0.094	0.10	0.10	94	100	74-132	6.14	20
Ethylbenzene	0.096	0.10	0.10	96	101	84-127	4.37	20
m,p-Xylene	0.19	0.20	0.20	93	99	80-120	5.82	20
o-Xylene	0.094	0.10	0.10	94	101	80-120	6.86	20

Surrogate Recovery

2-Fluorotoluene	0.086	0.090	0.10	86	90	75-134	4.24	20
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Quality Control Report

Client: AEI Consultants

Date Prepared: 04/29/2024

Date Analyzed: 04/29/2024

Instrument: GC12

Matrix: Water

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292757

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Bm

Unit: µg/L

Sample ID: MB/LCS/LCSD-292757

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	19	50	-	-	-
MTBE	ND	0.23	1.0	-	-	-
Benzene	ND	0.093	0.50	-	-	-
Toluene	ND	0.11	0.50	-	-	-
Ethylbenzene	ND	0.093	0.50	-	-	-
m,p-Xylene	ND	0.16	1.0	-	-	-
o-Xylene	ND	0.089	0.50	-	-	-

Surrogate Recovery

aaa-TFT	10			10	105	74-117
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Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	55	56	60	91	94	78-116	2.46	20
MTBE	9.6	7.8	10	96	78	72-122	20.1,F2	20
Benzene	11	11	10	114	107	81-123	6.37	20
Toluene	10	9.6	10	101	96	83-129	5.87	20
Ethylbenzene	10	10	10	105	100	88-126	4.49	20
m,p-Xylene	21	20	20	105	100	80-120	4.66	20
o-Xylene	11	10	10	106	100	80-120	5.91	20

Surrogate Recovery

aaa-TFT	10	11	10	105	108	74-117	2.63	20
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Quality Control Report

Client:	AEI Consultants	WorkOrder:	2404L59
Date Prepared:	04/30/2024	BatchID:	292850
Date Analyzed:	04/30/2024	Extraction Method:	SW5030B
Instrument:	GC12	Analytical Method:	SW8021B/8015Bm
Matrix:	Water	Unit:	µg/L
Project:	488291; Danco Communities	Sample ID:	MB/LCS/LCSD-292850 2404L59-014AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	19	50	-	-	-
MTBE	ND	0.23	1.0	-	-	-
Benzene	ND	0.093	0.50	-	-	-
Toluene	ND	0.11	0.50	-	-	-
Ethylbenzene	ND	0.093	0.50	-	-	-
m,p-Xylene	ND	0.16	1.0	-	-	-
o-Xylene	ND	0.089	0.50	-	-	-
Surrogate Recovery						
aaa-TFT	10			10	101	74-117



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/30/2024
Date Analyzed: 04/30/2024
Instrument: GC12
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292850
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS/LCSD-292850
2404L59-014AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	55	53	60	91	88	78-116	3.23	20
MTBE	8.0	8.1	10	80	81	72-122	1.10	20
Benzene	11	10	10	109	102	81-123	7.16	20
Toluene	9.6	9.1	10	96	91	83-129	5.24	20
Ethylbenzene	10	9.6	10	100	96	88-126	4.84	20
m,p-Xylene	20	19	20	100	96	80-120	3.79	20
o-Xylene	10	9.8	10	101	98	80-120	3.03	20

Surrogate Recovery

aaa-TFT	11	9.7	10	107	97	74-117	9.20	20
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Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	1	57	61	60	ND	95	102	63-133	6.41	20
MTBE	1	8.4	8.5	10	ND	81	82	69-122	1.73	20
Benzene	1	10	10	10	ND	103	101	84-125	2.15	20
Toluene	1	9.2	9.0	10	ND	92	90	87-131	2.08	20
Ethylbenzene	1	9.6	9.4	10	ND	96	94	92-126	2.56	20
m,p-Xylene	1	19	19	20	ND	96	94	80-120	2.26	20
o-Xylene	1	9.8	9.7	10	ND	98	97	80-120	0.816	20

Surrogate Recovery

aaa-TFT	1	10	9.7	10		101	97	76-115	3.86	20
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Quality Control Report

Client:	AEI Consultants	WorkOrder:	2404L59
Date Prepared:	04/26/2024	BatchID:	292554
Date Analyzed:	04/29/2024	Extraction Method:	SW3550B
Instrument:	GC9b	Analytical Method:	SW8015B
Matrix:	Soil	Unit:	mg/Kg
Project:	488291; Danco Communities	Sample ID:	MB/LCS/LCSD-292554

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	1.1	2.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	4.3	10	-	-	-
Surrogate Recovery						
C9	29			25	118	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	47	40	40	119	101	70-130	16.5	20
Surrogate Recovery								
C9	28	28	25	110	112	70-130	1.43	20



Quality Control Report

Client: AEI Consultants
Date Prepared: 04/26/2024
Date Analyzed: 04/27/2024 - 04/29/2024
Instrument: GC9a, GC9b
Matrix: Water
Project: 488291; Danco Communities

WorkOrder: 2404L59
BatchID: 292549
Extraction Method: SW3510C
Analytical Method: SW8015B
Unit: µg/L
Sample ID: MB/LCS/LCSD-292549

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	54	100	-	-	-
TPH-Motor Oil (C18-C36)	ND	160	500	-	-	-
Surrogate Recovery						
C9	600			625	95	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1100	1000	113	107	70-130	5.13	20
Surrogate Recovery								
C9	600	670	625	97	107	70-130	10.7	20

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Quality Control Report

Client: AEI Consultants

Date Prepared: 04/30/2024

Date Analyzed: 04/30/2024

Instrument: GC9b

Matrix: Water

Project: 488291; Danco Communities

WorkOrder: 2404L59

BatchID: 292779

Extraction Method: SW3510C

Analytical Method: SW8015B

Unit: µg/L

Sample ID: MB/LCS/LCSD-292779

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	54	100	-	-	-
TPH-Motor Oil (C18-C36)	ND	160	500	-	-	-
Surrogate Recovery						
C9	680			625	109	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	1100	1100	1000	109	109	70-130	0.153	20
Surrogate Recovery								
C9	670	680	625	108	108	70-130	0.294	20



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Page 1 of 2

WorkOrder: 2404L59

ClientCode: AEL

☐ EQuIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

Report to:

Nick Woods
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 321-3561 FAX: (925) 283-6121

Email: nwoods@aeiconsultants.com
cc/3rd Party:
PO: 365388
Project: 488291; Danco Communities

Bill to:

Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: 04/24/2024

Date Logged: 04/26/2024

Lab ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2404L59-001	SB-1-2'	Soil	4/23/2024 11:11	☒					A	A						
2404L59-002	SB-2-2.5'	Soil	4/23/2024 11:32	☒					A	A						
2404L59-003	SB-5-1'	Soil	4/23/2024 12:11	☐	A		A		A		A					
2404L59-004	SB-5-2'	Soil	4/23/2024 12:18	☒					A	A						
2404L59-005	SB-5-2.5'	Soil	4/23/2024 12:22	☐	A		A		A		A					
2404L59-006	SB-5-5'	Soil	4/23/2024 12:27	☒					A	A						
2404L59-007	SB-6-1'	Soil	4/23/2024 12:41	☒					A	A						
2404L59-008	SB-6-2.5'	Soil	4/23/2024 12:48	☒					A	A						
2404L59-009	SB-6-5'	Soil	4/23/2024 12:55	☒					A	A						
2404L59-010	SB-1-W	Water	4/23/2024 14:20	☐		B		A	A			A				
2404L59-011	SB-2-W	Water	4/23/2024 14:25	☐		B		A	A			A				
2404L59-012	SB-3-W	Water	4/23/2024 14:35	☐		B		A	A			A				
2404L59-013	SB-4-W	Water	4/23/2024 14:50	☐		B		A	A			A				
2404L59-014	SB-5-W	Water	4/23/2024 15:00	☐		B		A	A			A				
2404L59-015	SB-6-W	Water	4/23/2024 15:10	☐		B		A	A			A				

Test Legend:

1	8082_PCB_ESL_LL_S
5	PRDisposal Fee
9	

2	8260_W
6	PRHOLD
10	

3	G-MBTEx_S
7	TPH(DMO)_S
11	

4	G-MBTEx_W
8	TPH(DMO)_W
12	

Project Manager: Jennifer Lagerbom

Prepared by: Agustina Venegas

The following SampleIDs: 003A, 005A contain testgroup Multi Range_S.; The following SampleIDs: 010A, 011A, 012A, 013A, 014A, 015A, 016A contain testgroup Multi Range_W.

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax☐ CLIP☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

WorkOrder: 2404L59

ClientCode: AEL

☐ EQuIS☐ Dry-Weight☒ Email☐ HardCopy☐ ThirdParty☐ J-flag☐ Detection Summary☐ Excel**Report to:**

Nick Woods

AEI Consultants

2500 Camino Diablo, Ste.#200

Walnut Creek, CA 94597

(925) 321-3561

FAX: (925) 283-6121

Email: nwoods@aeiconsultants.com

cc/3rd Party:

PO: 365388

Project: 488291; Danco Communities

Bill to:

Accounts Payable

AEI Consultants

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

AccountsPayable@AEIConsultants.com

Requested TAT:**5 days;***Date Received:***04/24/2024***Date Logged:***04/26/2024**

Lab ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2404L59-016	SB-7-W	Water	4/23/2024 15:20	☐		B		A	A			A				

Test Legend:

1	8082_PCB_ESL_LL_S
5	PRDisposal Fee
9	

2	8260_W
6	PRHOLD
10	

3	G-MBTX_S
7	TPH(DMO)_S
11	

4	G-MBTX_W
8	TPH(DMO)_W
12	

Project Manager: Jennifer Lagerbom**Prepared by: Agustina Venegas**

The following SampleIDs: 003A, 005A contain testgroup Multi Range_S.; The following SampleIDs: 010A, 011A, 012A, 013A, 014A, 015A, 016A contain testgroup Multi Range_W.

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

Project: 488291; Danco Communities

Work Order: 2404L59

Client Contact: Nick Woods

QC Level: LEVEL 2

Contact's Email: nwoods@aeiconsultants.com

Comments:

Date Logged: 4/26/2024

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
003A	SB-5-1'	Soil	Multi-Range TPH Gas, Diesel, and Motor Oil	1	Acetate Liner	☐	☐	☐	4/23/2024 12:11	5 days	5/1/2024		☐	☐
			SW8082A (Low Level PCBs Only)			☐	☐	☐		5 days	5/1/2024		☐	☐
005A	SB-5-2.5'	Soil	Multi-Range TPH Gas, Diesel, and Motor Oil	1	Acetate Liner	☐	☐	☐	4/23/2024 12:22	5 days	5/1/2024		☐	☐
			SW8082A (Low Level PCBs Only)			☐	☐	☐		5 days	5/1/2024		☐	☐
010A	SB-1-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:20	5 days	5/1/2024	20%+	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				20%+	☐	☐
010B	SB-1-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:20	5 days	5/1/2024	20%+	☐	☐
011A	SB-2-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:25	5 days	5/1/2024	20%+	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				20%+	☐	☐
011B	SB-2-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:25	5 days	5/1/2024	20%+	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS	Project: 488291; Danco Communities	Work Order: 2404L59
Client Contact: Nick Woods		QC Level: LEVEL 2
Contact's Email: nwoods@aeiconsultants.com	Comments:	Date Logged: 4/26/2024

☐ WaterTrax
 ☐ CLIP
 ☐ EDF
 ☐ Excel
 ☒ EQUIS
 ☒ Email
 ☐ HardCopy
 ☐ ThirdParty
 ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
012A	SB-3-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:35	5 days	5/1/2024	Present	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				Present	☐	☐
012B	SB-3-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:35	5 days	5/1/2024	Present	☐	☐
013A	SB-4-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:50	5 days	5/1/2024	10%+	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				10%+	☐	☐
013B	SB-4-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 14:50	5 days	5/1/2024	10%+	☐	☐
014A	SB-5-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 15:00	5 days	5/1/2024	Present	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				Present	☐	☐
014B	SB-5-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 15:00	5 days	5/1/2024	Present	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

Project: 488291; Danco Communities

Work Order: 2404L59

Client Contact: Nick Woods

QC Level: LEVEL 2

Contact's Email: nwoods@aeiconsultants.com

Comments:

Date Logged: 4/26/2024

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
015A	SB-6-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 15:10	5 days	5/1/2024	1%+	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				1%+	☐	☐
015B	SB-6-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 15:10	5 days	5/1/2024	1%+	☐	☐
016A	SB-7-W	Water	Multi-Range TPH Gas, Diesel, and Motor Oil	2	VOA w/ HCl	☐	☐	☐	4/23/2024 15:20	5 days	5/1/2024	Present	☐	☐
				2	60mL aVOA Unpresv.	☐	☐	☐				Present	☐	☐
016B	SB-7-W	Water	SW8260D (VOCs)	2	VOA w/ HCl	☐	☐	☐	4/23/2024 15:20	5 days	5/1/2024	Present	☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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2404159



McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701

Telephone: (877) 252-9262 / Fax: (925) 252-9269

www.mccampbell.com

main@mccampbell.com

Report To: Nick Woods

Bill To: AEI Consultants

Company: AEI

Address: 2500 Camino Diablo, Walnut Creek, CA

Email: nwoods@aeiconsultants.com

Tele: 925-321-3561

Project Name: Danco Communities

Project #: 488291

Project Location: Arcata, CA

PO # 365388

Sampler Signature: Nick Woods

CHAIN OF CUSTODY RECORD

Turn Around Time: Day Rush	2 Day Rush	3 Day Rush	STD ☒	Quote #
J-Flag / MDL	ESL ☒	Cleanup Approved	Dry Weight	Bottle Order #
Delivery Format: PDF	GeoTracker EDF	EDD	Write On (DW)	Detect Summary

Analysis Requested

SAMPLE ID Location / Field Point	Sampling		#Containers	Matrix	Preservative	Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTEX & TPH as Gas (8021/8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Baylands Requirements	Lab to filter sample for dissolved metals analysis	Hold
	Date	Time																				
SB-1-2'	4/23/24	11:11	1	S	1																	
SB-2-2.5'		11:32																				X
SB-5-1'		12:11																				X
SB-5-2'		12:18				X								X								
SB-5-2.5'		12:22				X								X								X
SB-5-5'		12:27																				
SB-6-1'		12:41																				X
SB-6-2.5'		12:48																				X
SB-6-5'		12:55																				X
SB-1-W		14:20	6	GW	1,2	X									X							X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name			Date	Time	Received By / Company Name			Date	Time
Nick Woods AEI Consultants			4/24/24	15:33	[Signature]			4/24/24	1533

Comments / Instructions

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
 Preservative Code: 1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=ZnOAc/NaOH 7=None

*ESLS Added per EMAIL by N.W.

Temp 1.0 °C Initials WET



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main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush	2 Day Rush	3 Day Rush	STD	X	Quote #
J-Flag / MDL	ESL	Cleanup Approved	Dry Weight	Bottle Order #	
Delivery Format: PDF	GeoTracker EDF	EDD	Write On (DW)	Detect Summary	

Report To: Nick Woods Bill To: AEI Consultants

Company: AEI

Address: 2500 Camino Diablo, Walnut Creek, CA

Email: nwoods@aeiconsultants.com

Tele: 925-321-3561

Project Name: Danco Communities

Project #: 488291

Project Location: Arcata, CA

PO # 365388

Sampler Signature: Nick Woods

Analysis Requested

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Multi Range as Gas, Diesel, and Motor Oil (8021/8015)	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (413.1) With Silica Gel	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNA's)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)*	Baylands Requirements	Lab to filter sample for dissolved metals analysis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

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Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Nick Woods AEI Consultants	4/23/24	15:33	[Signature]	4/24/24	15:33

Comments / Instructions

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
 Preservative Code: 1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____



Sample Receipt Checklist

Client Name: AEI Consultants
Project: 488291; Danco Communities

Date and Time Received: 4/24/2024 15:33
Date Logged: 4/26/2024
Received by: Valerie Alfaro
Logged by: Agustina Venegas

WorkOrder No: 2404L59 Matrix: Soil/Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: WET ICE)

Sample/Temp Blank temperature	Temp: 1°C		NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☒	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☒

Comments: