



AEI Consultants

August 27, 2018

SEMIANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT, SECOND SEMESTER 2018

Property Identification:

3635 13th Avenue
Oakland, California 94606

AEI Project No. 338841
ACHCSA Case No. RO0000159

Prepared for:

Mr. Kia Sumner
1069 Oak Hills Road
Lafayette, California 94549

Prepared by:

AEI Consultants
3880 South Bascom Avenue, Suite 109
San Jose, California 95124
(408) 559-7600

Environmental &
Engineering Due
Diligence

Site Investigation &
Remediation

Energy Performance
& Benchmarking

Industrial Hygiene

Construction
Consulting

Construction,
Site Stabilization &
Stormwater Services

National Presence
Regional Focus
Local Solutions

August 27, 2018

Ms. Karel Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Transmittal, Semiannual Groundwater Monitoring and Sampling Report, Second Semester 2018
3635 13th Avenue, Oakland, California 94610
Toxics Case No. RO0000159

Dear Ms. Detterman:

Enclosed is the *Semiannual Groundwater Monitoring and Sampling Report, Second Semester 2018*, prepared at your request for activities at the subject site.

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to contact Mr. Trent Weise of AEI Consultants at (925) 746-6000.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kia Sumner".

Mr. Kia Sumner

Enclosures

**Semiannual Groundwater Monitoring
and Sampling Report, Second Semester 2018**
3635 13th Avenue, Oakland, California

TABLE OF CONTENTS

| | |
|---------------------------------------|-----------|
| SIGNATURES | II |
| 1. INTRODUCTION | 1 |
| 2. BACKGROUND | 1 |
| 3. STATUS REPORT | 1 |
| 3.1 Activities Conducted | 1 |
| 3.2 Activities Proposed | 1 |
| 4. MONITORING ACTIVITIES | 2 |
| 5. SUMMARY OF RESULTS | 3 |
| 5.1 Groundwater Level Elevations..... | 3 |
| 5.2 Groundwater Sample Results..... | 3 |
| 6. REFERENCES | 4 |

TABLES

- | | |
|---------|---|
| Table 1 | Summary of Well Construction Details |
| Table 2 | Summary of Groundwater Elevation Measurements |
| Table 3 | Summary of Compounds Detected – July 2018 |
| Table 4 | Summary of Groundwater Analytical Results |

FIGURES

- | | |
|----------|---|
| Figure 1 | Site Location Map |
| Figure 2 | Site Plan |
| Figure 3 | Groundwater Elevation Contours – July 12, 2018 |
| Figure 4 | TPH-g Concentration in Groundwater – Second Semester 2018 |
| Figure 5 | Benzene Concentration in Groundwater – Second Semester 2018 |

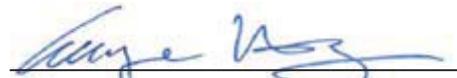
APPENDICES

- | | |
|------------|---|
| Appendix A | Field Data Sheets |
| Appendix B | Laboratory Analytical Report and Chain of Custody Documentation |
| Appendix C | Copy of Waste Disposal Manifest |

**Semiannual Groundwater Monitoring
and Sampling Report, Second Semester 2018**
3635 13th Avenue, Oakland, California

SIGNATURES

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



Wayne Hung, P.E. (CA-87178)
Project Engineer



Trent A. Weise, P.E. (CA-64480)
Principal Engineer



**Semiannual Groundwater Monitoring
and Sampling Report, Second Semester 2018**
3635 13th Avenue, Oakland, California

1. INTRODUCTION

On behalf of Mr. Kia Sumner, AEI Consultants (AEI) has prepared this Semiannual Groundwater Monitoring and Sampling Report for the Second Semester 2018 to document the recent monitoring event performed at 3635 13th Avenue in Oakland, California ("the Site"). Site assessment is being conducted in cooperation with the Alameda County Department of Environmental Health (ACDEH). The sampling activities and results are discussed in detail below.

2. BACKGROUND

The Site is located on the western corner of Excelsior and Thirteenth Avenues in an urban and primarily residential area of the City of Oakland. The Site is currently vacant pending the planned construction of a single-family home. Figure 1 presents the Site location and vicinity. The Site was formerly occupied by a gasoline service station, which ceased operation in 1992. In December 1992, one 250-gallon waste oil underground storage tank (UST), one 500-gallon gasoline UST, and one 1,000-gallon gasoline UST were removed from the Site. Investigation and remediation activities have been performed at the Site to address petroleum hydrocarbons released from the former USTs at the Site.

Seven groundwater monitoring wells have been installed at the Site, MW-1 through MW-7. Monitoring wells MW-1, MW-2, and MW-3 were installed in March 1994. In April 2007, four additional groundwater monitoring wells, MW-4 through MW-7, were installed. Figure 2 presents the Site plan, including the monitoring well locations. Table 1 presents a summary of groundwater monitoring well construction details. Periodic groundwater monitoring has been performed with the groundwater monitoring wells since their installation.

3. STATUS REPORT

This section provides a status report of activities conducted during the second semiannual monitoring event of 2018 and activities proposed for 2019.

3.1 Activities Conducted

Activities performed during the first and second semester of 2018 included:

- Meeting with Mr. Kia Sumner, ACDEH, and Joint Execution Team (JET) on June 27, 2018 to discuss the Project Execution Plan (PEP) for the year 2018-2019, request for a draft revised Corrective Action Plan (CAP) with Updated Site Conceptual Model (CSM), Work Plan for additional groundwater monitoring well installation, and request for continue semi-annual groundwater monitoring and sampling events.
- Performed the second semiannual groundwater monitoring on July 12, 2018.

3.2 Activities Proposed

Activities proposed for the remainder Second Semester of 2018 include:

- Submit a PEP for the year 2018-2019.
- Submit a draft revised CAP including additional groundwater monitoring well installation on or before September 21, 2018.

**Semiannual Groundwater Monitoring
and Sampling Report, Second Semester 2018**
3635 13th Avenue, Oakland, California

- Upon approval of the CAP, complete the groundwater well installation prior to the next semi-annual groundwater monitoring event.
- Upon approval of the revised CAP, implement the activities proposed in the CAP.

Activities proposed for the First Semester of 2019 include:

- Perform semi-annual groundwater monitoring in January 2019.

4. MONITORING ACTIVITIES

AEI performed the second semester groundwater sampling event on July 12, 2018, including measuring depth to water and collecting groundwater samples from each of the seven groundwater monitoring wells at the Site as described below.

On July 12, 2019, groundwater elevations were measured in each of the monitoring wells at the Site. The well caps were removed and the wells were allowed to equilibrate with the atmosphere. The depth to water was then measured in each well to \pm 0.01 foot using an electronic depth to water meter. Table 2 presents the depth to water measurements collected and the calculated groundwater elevations.

Once depth to water measurements were recorded, groundwater samples were collected from each of the seven groundwater monitoring wells, MW-1 through MW-7. The wells were first purged using disposal bailers to a total volume of approximately three-well volumes. During well purging, groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured at approximately five-minute intervals. The wells were purged until either three-well volumes were achieved or significant well dewatering occurred. Visual estimates of turbidity were noted while purging the wells. Once three-well volumes were purged or significant well dewatering was achieved, groundwater samples were collected from each well using a disposal bailer. Samples for volatile analytes were collected into 40 milliliter (mL) hydrochloric acid (HCl) preserved volatile organic analysis (VOA) vials, with zero headspace (no air bubbles). Samples for semi-volatile analytes were collected into 1L amber glass container without preservative. Groundwater samples collected were entered onto the chain-of-custody record and placed in an ice chilled cooler pending transportation to the laboratory. Copies of the field forms for the groundwater monitoring event are included in Appendix A.

The collected groundwater samples were transported under proper chain-of-custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644) for analyses. Each groundwater sample collected was analyzed for Volatile Organic Compounds (VOCs) including methyl-tertiary butyl ether (MTBE), benzene, toluene, ethylbenzene, and total xylenes (collectively "BTEX compounds"); total petroleum hydrocarbons as gasoline (TPH-g) using US EPA Testing Method 8260B, total petroleum hydrocarbons as diesel (TPH-d) and motor oil (TPH-mo) using US EPA Testing Method 8015M, with silica gel cleanup; and for Semi-Volatile Organic Compounds (SVOCs) using US EPA Testing Method SW8270C.

**Semiannual Groundwater Monitoring
and Sampling Report, Second Semester 2018**
3635 13th Avenue, Oakland, California

Purged groundwater generated during the sampling event was stored onsite in two sealed, labeled, department of transportation (DOT) approved 55-gallon drums.

5. SUMMARY OF RESULTS

This section provides a summary of the results of the groundwater monitoring performed during the second semester monitoring event.

5.1 Groundwater Level Elevations

Groundwater elevations measured during the event were generally consistent with previous monitoring events. Groundwater elevation data is summarized in Table 2. Groundwater elevation contours are shown on Figure 3. Groundwater elevations are generally consistent with previous monitoring events, with groundwater flow direction generally towards the south-southwest.

5.2 Groundwater Sample Results

Table 3 presents a summary of compounds detected in groundwater samples collected and analyzed during the second semester groundwater monitoring event for 2018. Table 4 presents a summary of current and historical results for select compounds. Petroleum hydrocarbons continue to be detected in five of the seven groundwater monitoring wells. Consistent with previous groundwater monitoring events, no petroleum hydrocarbons were detected at or above their respective laboratory method detection limits in MW-1 and MW-3. The concentrations of petroleum hydrocarbons detected were generally consistent with historical observations and can be summarized as follows:

- TPH-g was detected in five of the seven groundwater samples collected and analyzed, at concentrations ranging between 520 micrograms per liter ($\mu\text{g/L}$) to 5,000 $\mu\text{g/L}$.
- TPH-d was detected in five of the seven groundwater samples collected and analyzed, at concentrations ranging between 120 $\mu\text{g/L}$ to 14,000 $\mu\text{g/L}$.
- Benzene was detected in five of the seven groundwater samples collected and analyzed, observed at concentrations ranging from 55 $\mu\text{g/L}$ to 2,600 $\mu\text{g/L}$.
- Methyl tert butyl ether (MTBE) was detected in five of the seven groundwater samples collected and analyzed, observed at concentrations ranging between 0.72 $\mu\text{g/L}$ to 110 $\mu\text{g/L}$.

During the meeting on June 27, 2018, ACDEH requested to run full-scan SVOCs for this groundwater monitoring event. The observed concentrations of SVOCs were compared to the Environmental Screening Levels (ESLs) promulgated by the San Francisco Bay Regional Water Quality Control Board. However, for many SVOCs there have not been an ESL nor a Risk Screening Level (RSL) developed by the US EPA. The SVOCs detections are presented in Table 3 and can be summarized as follow:

- Bis (2-ethylhexyl) phthalate was detected in the groundwater sample collected from monitoring well MW-2 at a concentration of 14 $\mu\text{g/L}$. The ESL value for bis (2-ethylhexyl) phthalate for residential shallow groundwater is not established. The RSL for tap water is 5.6 $\mu\text{g/L}$.
- 4-chloroaniline was detected in the groundwater sample collected from monitoring well MW 4 at a concentration of 45 $\mu\text{g/L}$. There is no ESL value for 4-chloroaniline for residential shallow groundwater. The RSL for tap water is 0.37 $\mu\text{g/L}$.

**Semiannual Groundwater Monitoring
and Sampling Report, Second Semester 2018**
3635 13th Avenue, Oakland, California

- Hexachloroethane was detected in the groundwater sample collected from monitoring well MW-4 at a concentration of 100 µg/L. There is no ESL nor RSL value for hexachloroethane.
- 2-Methyl naphthalene was detected in the groundwater sample collected from monitoring well MW-2 and MW-4 at concentrations of 4.3 and 6.1 µg/L, respectively. There is no ESL nor RSL value for 2-methyl naphthalene.
- Naphthalene was detected from in the groundwater samples collected from monitoring wells MW-2, MW4, and MW-6 at concentrations of 15, 140, and 33 µg/L, respectively. The ESL value for naphthalene for residential shallow groundwater is 20 µg/L for the protection of the vapor intrusion pathway. However, soil gas sampling has been performed at the Site and naphthalene was not detected at or above the residential ESL of 41 µg/m³, for the protection of indoor air. Therefore, the naphthalene present in groundwater does not appear to pose an unacceptable risk to indoor air quality.
- Nitrobenzene was detected in the groundwater sample collected from monitoring well MW-4 at a concentration of 6.9 µg/L. The ESL value for nitrobenzene for residential shallow groundwater is not established. The RSL for tap waters is 0.14 µg/L.

Overall, the concentrations detected in SVOCs do not exceed their respective ESL values except naphthalene from MW-4 and MW-6. Some of the SVOCs exceeded the tap water RSL, although this is not a complete pathway at the Site. In the directive letter dated July 17, 2018, ACDEH requested groundwater samples collected from MW-1 and MW-7 be analyzed for full scan SVOCs and VOCs due to location of the two wells directly downgradient of the former waste oil UST. AEI will continue to monitor the VOCs and SVOCs concentrations in the groundwater samples collected from the two wells as requested in the future groundwater monitoring events.

Figures 4 and 5 present groundwater concentrations and isoconcentration contours for TPHg and benzene, respectively. In general, the extent of TPHg and benzene in groundwater is stable or decreasing. Laboratory analytical reports and chain of custody documentation are included in Appendix B.

6. REFERENCES

The regulatory record for this Site can be found on the State of California GeoTracker Website at
https://geotracker.waterboards.ca.gov/esi/view_submittals.asp?global_id=T0600100274

TABLES



AEI Consultants

Table 1
Summary of Well Construction Details
3635 13th Avenue, Oakland, California

| Well ID | Date Installed | Casing Elevation (feet NAVD 88) | Nominal Diameter (inch) | Total Depth (feet bgs) | Screen Interval (feet bgs) | Sand Pack Interval (feet bgs) | Bentonite Seal Interval (feet bgs) | Cement Grout Interval (feet bgs) | Casing Material |
|----------------|-----------------------|---|-----------------------------------|----------------------------------|--------------------------------------|---|--|--|------------------------|
| MW-1 | 03/24/94 | 197.33 | 2 | 25 | 12 - 25 | 11 - 25 | 10 - 11 | 0.5 - 10 | SCH40 PVC |
| MW-2 | 03/24/94 | 199.01 | 2 | 36 | 16 - 36 | 15 - 36 | 14 - 15 | 0.5 - 14 | SCH40 PVC |
| MW-3 | 03/24/94 | 201.57 | 2 | 36.5 | 15.5 - 36 | 14 - 36.5 | 13.5 - 14.5 | 0.5 - 13.5 | SCH40 PVC |
| MW-4 | 09/07/07 | 200.29 | 2 | 22 | 17 - 22 | 16 - 22 | 15 - 16 | 0.5 - 15 | SCH40 PVC |
| MW-5 | 09/07/07 | 198.61 | 2 | 22 | 17 - 22 | 16 - 22 | 15 - 16 | 0.5 - 15 | SCH40 PVC |
| MW-6 | 09/07/07 | 200.29 | 2 | 22 | 17 - 22 | 16 - 22 | 15 - 16 | 0.5 - 15 | SCH40 PVC |
| MW-7 | 11/03/08 | 197.67 | 2 | 22 | 17 - 22 | 16 - 22 | 15 - 16 | 1 - 15 | SCH40 PVC |

Notes/Abbreviations

bgs = below ground surface

SCH40 PVC = schedule 40 polyvinyl chloride

NM = Not Measured

NAVD 88 = North American Vertical Datum of 1988

*Monitoring Well elevation for MW-1 through MW-7 was resurveyed on 1/25/2017

Table 2
Summary of Groundwater Elevation Measurements
3635 13th Avenue, Oakland, California

| Well ID | Date | Well TOC Elevation (feet NAVD 88) | Depth to Water (feet BTOC) | Groundwater Elevation (feet msl) |
|----------------|------------------------|---|--|--|
| MW-1 | 11/22/94 | 194.75 | 10.92 | 183.83 |
| | 02/23/95 | | 10.58 | 184.17 |
| | 05/24/95 | | 10.94 | 183.81 |
| | 08/18/95 | | 14.52 | 180.23 |
| | 02/07/96 | | 4.43 | 190.32 |
| | 09/06/96 | | 13.60 | 181.15 |
| | 06/19/97 | | 13.07 | 181.68 |
| | 01/24/02 | | 9.53 | 185.22 |
| | 07/15/03 | | 12.85 | 181.90 |
| | 10/10/03 | | 14.58 | 180.17 |
| | 04/06/04 | | 10.92 | 183.83 |
| | 07/09/04 | | 14.34 | 180.41 |
| | 10/08/04 | | 15.30 | 179.45 |
| | 04/02/07 | | 12.19 | 182.56 |
| | 07/02/07 | | 13.28 | 181.47 |
| | 10/03/07 | | 17.05 | 177.70 |
| | 01/09/08 | 197.28 | 6.74 | 190.54 |
| | 04/04/08 | | 13.16 | 184.12 |
| | 07/07/08 | | 15.84 | 181.44 |
| | 10/16/08 | | 17.54 | 179.74 |
| | 1/29/2013 ¹ | | 11.36 | 185.92 |
| | 12/16/13 | | 19.04 | 178.24 |
| | 04/17/14 | | 10.11 | 187.17 |
| | 11/04/14 | | 19.27 | 178.01 |
| | 05/29/15 | | 16.07 | 181.21 |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 13.79 | 183.49 |
| | 12/05/16 | 197.33 | 14.30 | 183.03 |
| | 05/30/17 | | 12.89 | 184.44 |
| | 11/29/17 | | 13.56 | 183.77 |
| | 07/12/18 | | 15.72 | 181.61 |
| MW-2 | 11/22/94 | 196.44 | 12.54 | 183.90 |
| | 02/23/95 | | 12.35 | 184.09 |
| | 05/24/95 | | 12.11 | 184.33 |
| | 08/18/95 | | 16.25 | 180.19 |
| | 02/07/96 | | 9.34 | 187.10 |
| | 09/06/96 | | 15.22 | 181.22 |
| | 06/19/97 | | 13.33 | 183.11 |
| | 01/24/02 | | 9.72 | 186.72 |
| | 07/15/03 | | 12.42 | 184.02 |
| | 10/10/03 | | 13.79 | 182.65 |
| | 04/06/04 | | 10.55 | 185.89 |
| | 07/09/04 | | 13.78 | 182.66 |
| | 10/08/04 | | 14.78 | 181.66 |
| | 04/02/07 | | 11.32 | 185.12 |

Table 2
Summary of Groundwater Elevation Measurements
3635 13th Avenue, Oakland, California

| Well ID | Date | Well TOC Elevation (feet NAVD 88) | Depth to Water (feet BTOC) | Groundwater Elevation (feet msl) |
|----------------|------------------------|---|--|--|
| MW-2 | 07/02/07 | | 13.18 | 183.26 |
| | 10/03/07 | | 16.71 | 179.73 |
| | 01/09/08 | 198.93 | 8.48 | 190.45 |
| | 04/04/08 | | 12.60 | 186.33 |
| | 07/07/08 | | 15.49 | 183.44 |
| | 10/16/08 | | 17.22 | 181.71 |
| | 1/29/2013 ¹ | | 12.89 | 186.04 |
| | 12/16/13 | | 18.72 | 180.21 |
| | 04/17/14 | | 10.30 | 188.63 |
| | 11/04/14 | | 18.65 | 180.28 |
| | 05/29/15 | | 15.57 | 183.36 |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 13.32 | 185.61 |
| | 12/05/16 | 199.01 | 13.54 | 185.47 |
| | 05/30/17 | | 12.40 | 186.61 |
| | 11/29/17 | | 12.93 | 186.08 |
| | 07/12/18 | | 15.39 | 183.62 |
| MW-3 | 11/22/94 | 198.93 | 11.53 | 187.40 |
| | 02/23/95 | | 11.89 | 187.04 |
| | 05/24/95 | | 12.71 | 186.22 |
| | 08/18/95 | | 16.14 | 182.79 |
| | 02/07/96 | | 6.22 | 192.71 |
| | 09/06/96 | | 13.51 | 185.42 |
| | 06/19/97 | | 12.46 | 186.47 |
| | 01/24/02 | | 10.08 | 188.85 |
| | 07/15/03 | | 12.45 | 186.48 |
| | 10/10/03 | | 14.00 | 184.93 |
| | 04/06/04 | | 10.78 | 188.15 |
| | 07/09/04 | | 14.14 | 184.79 |
| | 10/08/04 | | 14.99 | 183.94 |
| | 04/02/07 | | 11.87 | 187.06 |
| | 07/02/07 | | 14.45 | 184.48 |
| | 10/03/07 | | 17.10 | 181.83 |
| | 01/09/08 | 201.46 | 9.42 | 192.04 |
| | 04/04/08 | | 15.16 | 186.30 |
| | 07/07/08 | | 15.63 | 185.83 |
| | 10/16/08 | | 17.53 | 183.93 |
| | 1/29/2013 ¹ | | 12.15 | 189.31 |
| | 12/16/13 | | 19.20 | 182.26 |
| | 04/17/14 | | 12.56 | 188.90 |
| | 11/04/14 | | 19.17 | 182.29 |
| | 05/29/15 | | 16.33 | 185.13 |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 13.98 | 187.48 |
| | 12/05/16 | 201.57 | 13.03 | 188.54 |
| | 05/30/17 | | 12.48 | 189.09 |
| | 11/29/17 | | 13.05 | 188.52 |
| | 07/12/18 | | 15.80 | 185.77 |

Table 2
Summary of Groundwater Elevation Measurements
3635 13th Avenue, Oakland, California

| Well ID | Date | Well TOC Elevation (feet NAVD 88) | Depth to Water (feet BTOC) | Groundwater Elevation (feet msl) |
|----------------|------------------------|---|--|--|
| MW-4 | 10/03/07 | 200.23 | 17.21 | 183.02 |
| | 01/09/08 | | 9.20 | 191.03 |
| | 04/04/08 | | 13.63 | 186.60 |
| | 07/07/08 | | 16.18 | 184.05 |
| | 10/16/08 | | 17.81 | 182.42 |
| | 1/29/2013 ¹ | | 11.66 | 188.57 |
| | 12/16/13 | | 20.44 | 179.79 |
| | 04/17/14 | | 10.97 | 189.26 |
| | 11/04/14 | | 20.78 | 179.45 |
| | 05/29/15 | | 16.53 | 183.70 |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 15.30 | 184.93 |
| | 12/05/16 | 200.29 | 17.25 | 183.04 |
| | 05/30/17 | | 13.55 | 186.74 |
| | 11/30/17 | | 14.59 | 185.70 |
| | 07/12/18 | | 16.50 | 183.79 |
| MW-5 | 10/03/07 | 198.52 | 17.44 | 181.08 |
| | 01/09/08 | | 10.01 | 188.51 |
| | 04/04/08 | | 11.78 | 186.74 |
| | 07/07/08 | | 15.53 | 182.99 |
| | 10/16/08 | | 17.89 | 180.63 |
| | 1/29/2013 ¹ | | 13.21 | 185.31 |
| | 12/16/13 | | 18.65 | 179.87 |
| | 04/17/14 | | 16.32 | 182.20 |
| | 11/04/14 | | 19.53 | 178.99 |
| | 05/29/15 | | 16.37 | 182.15 |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 13.91 | 184.61 |
| | 12/05/16 | 198.61 | 14.48 | 184.13 |
| | 05/30/17 | | 12.84 | 185.77 |
| | 11/29/17 | | 13.82 | 184.79 |
| | 07/12/18 | | 15.99 | 182.62 |
| MW-6 | 10/03/07 | 200.20 | 18.46 | 181.74 |
| | 01/09/08 | | 11.93 | 188.27 |
| | 04/04/08 | | 15.69 | 184.51 |
| | 07/07/08 | | 14.84 | 185.36 |
| | 10/16/08 | | 18.95 | 181.25 |
| | 1/29/2013 ¹ | | 17.62 | 182.58 |
| | 12/16/13 | | 19.60 | 180.60 |
| | 04/17/14 | | 17.38 | 182.82 |
| | 11/04/14 | | 18.73 | 181.47 |
| | 05/29/15 | | 15.26 | 184.94 |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 13.36 | 186.84 |
| | 12/05/16 | 200.29 | 13.21 | 187.08 |
| | 05/30/17 | | 12.56 | 187.73 |
| | 11/29/17 | | 13.60 | 186.69 |
| | 07/12/18 | | 15.61 | 184.68 |

Table 2
Summary of Groundwater Elevation Measurements
3635 13th Avenue, Oakland, California

| Well ID | Date | Well TOC Elevation (feet NAVD 88) | Depth to Water (feet BTOC) | Groundwater Elevation (feet msl) |
|-----------------|------------------------|---|--|--|
| MW-7 | 1/29/2013 ¹ | NM | 19.07 | NM |
| | 12/16/13 | | 19.49 | NM |
| | 04/17/14 | | 10.54 | NM |
| | 11/04/14 | | 20.32 | NM |
| | 05/29/15 | | 15.71 | NM |
| | 11/20/15 | | NM | NM |
| | 05/24/16 | | 18.09 | NM |
| | 12/05/16 | 197.67 | 15.05 | 182.62 |
| | 05/30/17 | | 12.48 | 185.19 |
| | 11/29/17 | | 13.41 | 184.26 |
| 07/12/18 | | | 15.35 | 182.32 |

Notes/Abbreviations

ft msl = feet above mean sea level

BTOC = Below top of well casing

NM = Not Measured

NAVD 88 = North American Vertical Datum of 1988

Table 3
 Summary of Compounds Detected - July 2018
 3635 13th Avenue, Oakland, California

| Sample Location | Date | Analyte | Result | Units |
|------------------------|-------------|-----------------------|---------------|--------------|
| MW-1 | 07/12/18 | MTBE | 0.72 | µg/L |
| MW-2 | 07/12/18 | Benzene | 210 | µg/L |
| | | Ethylbenzene | 50 | µg/L |
| | | Toluene | 14 | µg/L |
| | | Xylenes | 48 | µg/L |
| | | TPH-g | 3,300 | µg/L |
| | | TPH-d | 14,000 | µg/L |
| MW-3 | 07/12/18 | No analytes detected | | |
| MW-4 | 07/12/18 | Benzene | 420 | µg/L |
| | | Ethylbenzene | 480 | µg/L |
| | | Toluene | 67 | µg/L |
| | | Xylenes | 210 | µg/L |
| | | TPH-g | 3,900 | µg/L |
| | | TPH-d | 1,600 | µg/L |
| MW-5 | 07/12/18 | Benzene | 55 | µg/L |
| | | Ethylbenzene | 18 | µg/L |
| | | TPH-g | 520 | µg/L |
| | | TPH-d | 120 | µg/L |
| MW-6 | 07/12/18 | Benzene | 140 | µg/L |
| | | Xylenes | 19 | µg/L |
| | | TPH-g | 3,800 | µg/L |
| | | TPH-d | 360 | µg/L |
| MW-7 | 07/12/18 | Benzene | 2,600 | µg/L |
| | | Ethylbenzene | 150 | µg/L |
| | | TPH-g | 5,000 | µg/L |
| | | TPH-d | 590 | µg/L |
| | | t-Butyl alcohol (TBA) | 650 | µg/L |

Abbreviations:

µg/L = micrograms per liter

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-d = Total Petroleum Hydrocarbons as diesel

MTBE = Methyl tertiary butyl ether

Table 4
Summary of Groundwater Analytical Results
3635 13th Avenue, Oakland, California

| Sample ID | Date Sampled | TPH-g (µg/L) | TPH-d (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | SVOCs | | | | | |
|-----------------|------------------------|---------------|--------------|-----------------|-----------------|-----------------|---------------------|-----------------|-------------------------------------|------------------------|-------------------------|-----------------------------|--------------------|---------------------|
| | | | | | | | | | Bis (2-ethylhexyl) Phthalate (µg/L) | 4-chloroaniline (µg/L) | Hexachloroethane (µg/L) | 2-Methyl naphthalene (µg/L) | Naphthalene (µg/L) | Nitrobenzene (µg/L) |
| MW - 1 | 11/22/94 | 210 | <50 | - | <0.5 | <0.5 | <0.5 | 2.3 | - | - | - | - | - | - |
| | 02/23/95 | 140 | <50 | - | <0.5 | <0.5 | 0.6 | 1.5 | - | - | - | - | - | - |
| | 05/24/95 | <50 | <50 | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 08/18/95 | 2800 | <50 | - | 25 | 6.2 | 22 | 30 | - | - | - | - | - | - |
| | 02/07/96 | <50 | <50 | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 09/06/96 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 06/19/97 | 630 | 400 | 15 | 25 | 9.7 | 100 | 14 | - | - | - | - | - | - |
| | 01/24/02 | 60 | <50 | <5.0 | 3.3 | 2.8 | 2.0 | 6.0 | - | - | - | - | - | - |
| | 07/15/03 | 87 | <50 | <5.0 | 15 | 4.9 | 3.3 | 9.2 | - | - | - | - | - | - |
| | 10/10/03 | 81 | 110 | <5.0 | <0.5 | 0.62 | 0.57 | 0.5 | - | - | - | - | - | - |
| | 04/06/04 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 07/09/04 | 130 | 80 | <35 | <0.5 | <0.5 | 2.8 | 0.78 | - | - | - | - | - | - |
| | 10/08/04 | 260 | 120 | 24 | 3.0 | 2.9 | 8.3 | 10 | - | - | - | - | - | - |
| | 04/02/07 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 07/02/07 | 150 | 79 | <25 | <0.5 | 1.0 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 10/03/07 | <50 | <50 | 5.8 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 01/09/08 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 04/04/08 | 130 | - | <10 | <0.5 | 1.2 | 22 | 0.93 | - | - | - | - | - | - |
| | 07/07/08 | <50 | <50 | 11 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 10/16/08 | 70 | <50 | 6.3 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 1/29/2013 ¹ | <50 | <50 | <5.0 | 3.6 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 12/16/13 | 110 | - | 46 | <0.5 | 1.2 | 0.7 | <0.5 | - | - | - | - | - | - |
| | 04/17/14 | <50 | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 11/04/14 | 97 | - | 1.1 | 21 | <0.5 | 3.2 | 2.3 | - | - | - | - | - | - |
| | 05/29/15 | <50 | - | <0.5 | <0.5 | <0.5 | 1.1 | <0.5 | - | - | - | - | - | - |
| | 11/20/15 | 120 | <50 | 0.62 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - |
| | 05/24/16 | 180 | 68 | 5.8 | <0.50 | <0.50 | 12 | 2.7 | - | - | - | - | - | - |
| | 11/30/16 | <50 | <50 | 3.6 | <0.50 | <0.50 | 1.6 | <0.50 | - | - | - | - | - | - |
| | 05/30/17 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - |
| | 11/29/17 | <50 | <50 | 8.5 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - |
| 07/12/18 | <50 | <50 | 0.72 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.43 | <4.3 | <2.1 | <2.1 | <2.1 | <2.1 |
| MW - 2 | 11/22/94 | 11,000 | <50 | - | 35 | 21 | 7 | 50 | - | - | - | - | - | - |
| | 02/23/95 | 4,000 | <50 | - | <0.5 | <0.5 | 3 | 6 | - | - | - | - | - | - |
| | 05/24/95 | 8,600 | <50 | - | 95 | 37 | 37 | 70 | - | - | - | - | - | - |
| | 08/18/95 | 7,200 | <50 | - | 43 | 21 | 21 | 71 | - | - | - | - | - | - |
| | 02/07/96 | 11,000 | <50 | - | 17 | 9 | 9 | 25 | - | - | - | - | - | - |
| | 09/06/96 | 15,000 | 1,900 | ND | 4,300 | 920 | 460 | 1,600 | - | - | - | - | - | - |
| | 06/19/97 | 26,000 | 2,900 | <200 | 5,300 | 1,500 | 910 | 3,200 | - | - | - | - | - | - |
| | 01/24/02 | 34,000 | 5,300 | <200 | 3,100 | 1,100 | 1,100 | 2,900 | - | - | - | - | - | - |
| | 07/15/03 | 18,000 | 6,600 | <1000 | 2,300 | 310 | 690 | 1,600 | - | - | - | - | - | - |
| | 10/10/03 | 19,000 | 1,800 | <500 | 2,700 | 460 | 850 | 1,800 | - | - | - | - | - | - |
| | 04/06/04 | 6,900 | 1,300 | <200 | 1,100 | 100 | 380 | 780 | - | - | - | - | - | - |
| | 07/09/04 | 17,000 | 4,400 | <450 | 2,800 | 240 | 710 | 1,300 | - | - | - | - | - | - |
| | 10/08/04 | 6,900 | 890 | <150 | 1,500 | 240 | 340 | 670 | - | - | - | - | - | - |
| | 04/02/07 | 21,000 | 4,300 | <450 | 2,000 | 300 | 1,000 | 1,700 | - | - | - | - | - | - |
| | 07/02/07 | 5,100 | 750 | <180 | 260 | 21 | 320 | 370 | - | - | - | - | - | - |

Table 4
Summary of Groundwater Analytical Results
3635 13th Avenue, Oakland, California

| Sample ID | Date Sampled | TPH-g (µg/L) | TPH-d (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | SVOCs | | | | | |
|---------------|------------------------|---------------|---------------|-----------------|-----------------|-----------------|---------------------|-----------------|-------------------------------------|------------------------|-------------------------|-----------------------------|--------------------|---------------------|
| | | | | | | | | | Bis (2-ethylhexyl) Phthalate (µg/L) | 4-chloroaniline (µg/L) | Hexachloroethane (µg/L) | 2-Methyl naphthalene (µg/L) | Naphthalene (µg/L) | Nitrobenzene (µg/L) |
| MW - 2 | 10/03/07 | 8,600 | 1,500 | <300 | 1,700 | 140 | 520 | 790 | - | - | - | - | - | - |
| | 01/09/08 | 38,000 | 48,000 | <400 | 3,000 | 380 | 1,200 | 1,900 | - | - | - | - | - | - |
| | 04/04/08 | 5,100 | - | <130 | 1,000 | 72 | 120 | 330 | - | - | - | - | - | - |
| | 07/07/08 | 5,600 | 920 | <130 | 930 | 52 | 250 | 320 | - | - | - | - | - | - |
| | 10/16/08 | 12,000 | 770 | <250 | 1,400 | 110 | 400 | 470 | - | - | - | - | - | - |
| | 1/29/2013 ¹ | 6,600 | 1,100 | <250 | 540 | 110 | 430 | 460 | - | - | - | - | - | - |
| | 12/16/13 | 3,600 | - | 20 | 160 | 20 | 120 | 129 | - | - | - | - | - | - |
| | 04/17/14 | 4,800 | - | 26 | 500 | 16 | 270 | 97 | - | - | - | - | - | - |
| | 11/04/14 | 2,100 | - | 25 | 150 | 27 | 120 | 84 | - | - | - | - | - | - |
| | 05/29/15 | 38,000 | - | 24 | 1,300 | 150 | 530 | 316 | - | - | - | - | - | - |
| | 11/20/15 | 780 | 290 | 12 | 17 | 2.8 | 28 | 22 | - | - | - | - | - | - |
| | 05/24/16 | 590 | 360 | 19 | 120 | 5.7 | 18 | 8.9 | - | - | - | - | - | - |
| | 11/30/16 | 2,400 | 3,900 | 10 | 270 | 12 | 140 | 57 | - | - | - | - | - | - |
| | 05/30/17 | 2,300 | 1,100 | 29 | 360 | 17 | 130 | 54 | - | - | - | - | - | - |
| | 11/29/17 | 1,500 | 980 | 16 | 120 | 3.6 | 36 | 13 | - | - | - | - | - | - |
| | 07/12/18 | 3,300 | 14,000 | 19 | 210 | 14 | 50 | 48 | 14 | <4.2 | <2.1 | 4.3 | 15 | <10 |
| MW - 3 | 11/22/94 | 200 | <50 | - | <0.5 | <0.5 | <0.5 | 2 | - | - | - | - | - | - |
| | 02/23/95 | 1500 | <50 | - | 6.6 | 6.4 | 4.2 | 13 | - | - | - | - | - | - |
| | 05/24/95 | 710 | <50 | - | 2.5 | 3.2 | 3.1 | 16 | - | - | - | - | - | - |
| | 08/18/95 | 310 | <50 | - | 3.1 | 2.1 | 2.2 | 11 | - | - | - | - | - | - |
| | 02/07/96 | 400 | <50 | - | 1.4 | 2.5 | 2.2 | 7 | - | - | - | - | - | - |
| | 09/06/96 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 06/19/97 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 01/24/02 | 58 | <50 | <5.0 | 4 | 2.7 | 2.3 | 6.7 | - | - | - | - | - | - |
| | 07/15/03 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 10/10/03 | 350 | 75 | <5.0 | 14 | 16 | 23 | 60 | - | - | - | - | - | - |
| | 04/06/04 | <50 | <50 | <5.0 | <0.5 | 1.7 | <0.5 | 1.7 | - | - | - | - | - | - |
| | 07/09/04 | 260 | <50 | <5.0 | 12 | 13 | 14 | 36 | - | - | - | - | - | - |
| | 10/08/04 | 450 | 76 | <5.0 | 21 | 22 | 30 | 86 | - | - | - | - | - | - |
| | 04/02/07 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 07/02/07 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 10/03/07 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 01/09/08 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 04/04/08 | <50 | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 07/07/08 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 10/16/08 | <50 | <50 | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 1/29/2013 ¹ | 63 | <50 | <5.0 | 7.8 | <0.5 | 3.1 | 2.1 | - | - | - | - | - | - |
| | 12/16/13 | <50 | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 04/17/14 | <50 | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 11/04/14 | <50 | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 05/29/15 | <50 | - | <5.0 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - |
| | 11/20/15 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - |
| | 05/24/16 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - |
| | 11/30/16 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - |
| | 05/30/17 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - |
| | 11/29/17 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - |
| | 07/12/18 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <4.2 | <4.2 | <2.1 | <2.1 | <2.1 | <2.1 |

Table 4
Summary of Groundwater Analytical Results
3635 13th Avenue, Oakland, California

| Sample ID | Date Sampled | TPH-g (µg/L) | TPH-d (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | SVOCs | | | | | |
|---------------|------------------------|--------------|--------------|-------------|----------------|----------------|---------------------|----------------|-------------------------------------|------------------------|-------------------------|-----------------------------|--------------------|---------------------|
| | | | | | | | | | Bis (2-ethylhexyl) Phthalate (µg/L) | 4-chloroaniline (µg/L) | Hexachloroethane (µg/L) | 2-Methyl naphthalene (µg/L) | Naphthalene (µg/L) | Nitrobenzene (µg/L) |
| MW - 4 | 10/03/07 | 11,000 | 2,000 | <1,500 | 1,100 | 87 | <17 | 1,300 | - | - | - | - | - | - |
| | 01/09/08 | 17,000 | 2,600 | <900 | 1,300 | 120 | 580 | 790 | - | - | - | - | - | - |
| | 04/04/08 | 17,000 | - | <1,500 | 1,600 | 200 | 500 | 1,300 | - | - | - | - | - | - |
| | 07/07/08 | 18,000 | 3,100 | <1,200 | 1,400 | 190 | 930 | 1,200 | - | - | - | - | - | - |
| | 10/16/08 | 25,000 | 2,000 | <1,500 | 1,200 | 110 | 490 | 890 | - | - | - | - | - | - |
| | 1/29/2013 ¹ | 18,000 | 3,200 | <700 | 1,500 | 170 | 1,100 | 1,100 | - | - | - | - | - | - |
| | 12/16/13 | 4,200 | - | 43 | 370 | 26 | 130 | 100 | - | - | - | - | - | - |
| | 04/17/14 | 7,300 | - | 45 | 550 | 55 | 540 | 305 | - | - | - | - | - | - |
| | 11/04/14 | 4,800 | - | 33 | 220 | 21 | 190 | 66 | - | - | - | - | - | - |
| | 05/29/15 | 12,000 | - | 49 | 600 | 78 | 740 | 337 | - | - | - | - | - | - |
| | 11/20/15 | 740 | 120 | 17 | 45 | <2.5 | 17 | 6.2 | - | - | - | - | - | - |
| | 05/24/16 | 870 | 410 | 56 | <5.0 | <5.0 | <5.0 | 47 | - | - | - | - | - | - |
| | 11/30/16 | 2,100 | 810 | 57 | 280 | 13 | 73 | 20 | - | - | - | - | - | - |
| | 05/30/17 | 2,900 | 1,600 | 32 | 530 | 60 | 380 | 200 | - | - | - | - | - | - |
| | 11/29/17 | 4,100 | 630 | 23 | 360 | 35 | 190 | 76 | - | - | - | - | - | - |
| | 07/12/18 | 3,900 | 1,600 | 20 | 420 | 67 | 480 | 210 | <8.3 | 45 | 100 | 6.1 | 140 | 6.9 |
| MW - 5 | 10/03/07 | 8,800 | 680 | <250 | 2,800 | 74 | 100 | 190 | - | - | - | - | - | - |
| | 01/09/08 | 7,400 | 580 | <350 | 2,000 | 5.6 | 93 | 29 | - | - | - | - | - | - |
| | 04/04/08 | 43,000 | - | <500 | 12,000 | 2,800 | 670 | 2,500 | - | - | - | - | - | - |
| | 07/07/08 | 20,000 | 1,000 | <500 | 6,800 | 190 | 280 | 380 | - | - | - | - | - | - |
| | 10/16/08 | 13,000 | 490 | <250 | 3,500 | 10 | 93 | 30 | - | - | - | - | - | - |
| | 1/29/2013 ¹ | 5,300 | 470 | <130 | 1,300 | 11 | 170 | 14 | - | - | - | - | - | - |
| | 12/16/13 | 1,300 | - | 86 | 240 | <2.5 | 5.7 | <2.5 | - | - | - | - | - | - |
| | 04/17/14 | 2,100 | - | 91 | 400 | <2.5 | 30 | <2.5 | - | - | - | - | - | - |
| | 11/04/14 | 470 | - | 59 | 1.1 | <0.5 | 0.9 | <0.5 | - | - | - | - | - | - |
| | 05/29/15 | 2,200 | - | 39 | 480 | <3.1 | 48 | <3.1 | - | - | - | - | - | - |
| | 11/20/15 | 200 | <50 | 74 | <1.2 | <1.2 | <1.2 | <1.2 | - | - | - | - | - | - |
| | 05/24/16 | 4,200 | 210 | 42 | 1,500 | 65 | 150 | 440 | - | - | - | - | - | - |
| | 11/30/16 | 99 | <50 | 34 | 12 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - |
| | 05/30/17 | 320 | 52 | 17 | 210 | <0.50 | 9.2 | 6.3 | - | - | - | - | - | - |
| | 11/29/17 | 140 | <50 | 13 | 4.6 | <0.50 | 0.82 | <0.50 | - | - | - | - | - | - |
| | 07/12/18 | 520 | 120 | 36 | 55 | <2.5 | 18 | <2.5 | <21 | <21 | <10 | <10 | <10 | <10 |
| MW - 6 | 10/03/07 | 11,000 | 1,400 | <1,200 | 1,400 | 64 | 74 | 320 | - | - | - | - | - | - |
| | 01/09/08 | 8,400 | 1,300 | <400 | 790 | 17 | 210 | 51 | - | - | - | - | - | - |
| | 04/04/08 | 6,100 | - | <500 | 630 | 52 | 430 | 130 | - | - | - | - | - | - |
| | 07/07/08 | 6,200 | 1,200 | <300 | 500 | 11 | 250 | 53 | - | - | - | - | - | - |
| | 10/16/08 | 3,700 | 600 | 180 | 220 | 4.4 | 93 | 15 | - | - | - | - | - | - |
| | 1/29/2013 ¹ | 2,300 | 440 | <130 | 180 | 18 | 79 | 40 | - | - | - | - | - | - |
| | 12/16/13 | 1,400 | - | 170 | 100 | 1.9 | 9.0 | 5.0 | - | - | - | - | - | - |
| | 04/17/14 | 740 | - | 97 | 49 | 1.1 | 22 | 0.9 | - | - | - | - | - | - |
| | 11/04/14 | 1,300 | - | 140 | 52 | 1.0 | 3.2 | 1.4 | - | - | - | - | - | - |
| | 05/29/15 | 2,600 | - | 140 | 310 | 13 | 25 | 42.7 | - | - | - | - | - | - |
| | 11/20/15 | 690 | 130 | 92 | 11 | <5.0 | <5.0 | <5.0 | - | - | - | - | - | - |
| | 05/24/16 | 1,200 | 420 | 80 | 130 | 16 | 16 | 30 | - | - | - | - | - | - |
| | 11/30/16 | 390 | 110 | 73 | 41 | <1.2 | <1.2 | <1.2 | - | - | - | - | - | - |
| | 05/30/17 | 370 | 140 | 140 | 33 | <2.5 | <2.5 | <2.5 | - | - | - | - | - | - |
| | 11/29/17 | 940 | 130 | 100 | 150 | 6.4 | <2.5 | 8.9 | - | - | - | - | - | - |
| | 07/12/18 | 3,800 | 360 | 110 | 140 | <10 | <10 | 19 | <8.3 | <8.3 | <4.2 | <4.2 | 33 | <4.2 |

Table 4
Summary of Groundwater Analytical Results
3635 13th Avenue, Oakland, California

| Sample ID | Date Sampled | TPH-g (µg/L) | TPH-d (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | SVOCs | | | | | |
|-----------------|------------------------|--------------|---------------|--------------|----------------|----------------|---------------------|----------------|-------------------------------------|------------------------|-------------------------|-----------------------------|--------------------|---------------------|
| | | | | | | | | | Bis (2-ethylhexyl) Phthalate (µg/L) | 4-chloroaniline (µg/L) | Hexachloroethane (µg/L) | 2-Methyl naphthalene (µg/L) | Naphthalene (µg/L) | Nitrobenzene (µg/L) |
| MW - 7 | 1/29/2013 ¹ | 42,000 | 2,300 | <900 | 14,000 | 140 | 1,100 | 800 | - | - | - | - | - | - |
| | 12/16/13 | 21,000 | - | <50 | 7,200 | <50 | 280 | 164 | - | - | - | - | - | - |
| | 04/17/14 | 11,000 | - | 23 | 3,900 | 22 | 290 | 157 | - | - | - | - | - | - |
| | 11/04/14 | 8,400 | - | <25 | 4,100 | <25 | 260 | <25 | - | - | - | - | - | - |
| | 05/29/15 | 6,800 | - | <20 | 2,700 | <20 | 240 | 24 | - | - | - | - | - | - |
| | 11/20/15 | 5,600 | 390 | <50 | 1,600 | <50 | <50 | <50 | - | - | - | - | - | - |
| | 05/24/16 | 3,000 | 620 | <250 | 4,600 | <250 | <250 | <250 | - | - | - | - | - | - |
| | 11/30/16 | 5,500 | 870 | <100 | 4,400 | <100 | 170 | <100 | - | - | - | - | - | - |
| | 05/30/17 | 2,200 | 320 | <25 | 1,700 | <25 | 96 | <25 | - | - | - | - | - | - |
| | 11/29/17 | 5,400 | 690 | <100 | 4,700 | <100 | 230 | <100 | - | - | - | - | - | - |
| 07/12/18 | 5,000 | 590 | <25 | 2,600 | <25 | 150 | <25 | <41 | <41 | <21 | <21 | <21 | <21 | <21 |

Notes / Abbreviations:

SVOCs - Semi-Volatile Organic Compounds

MTBE - Methyl tert butyl ether

TPH-d - Total petroleum hydrocarbons (TPH) as diesel

TPH-g - Total petroleum hydrocarbons (TPH) as gasoline

- = sample not analyzed by this method

< = Less than reporting limit

¹ = well additionally analyzed for TPH as motor oil and hexachrome; all below laboratory detection limits.

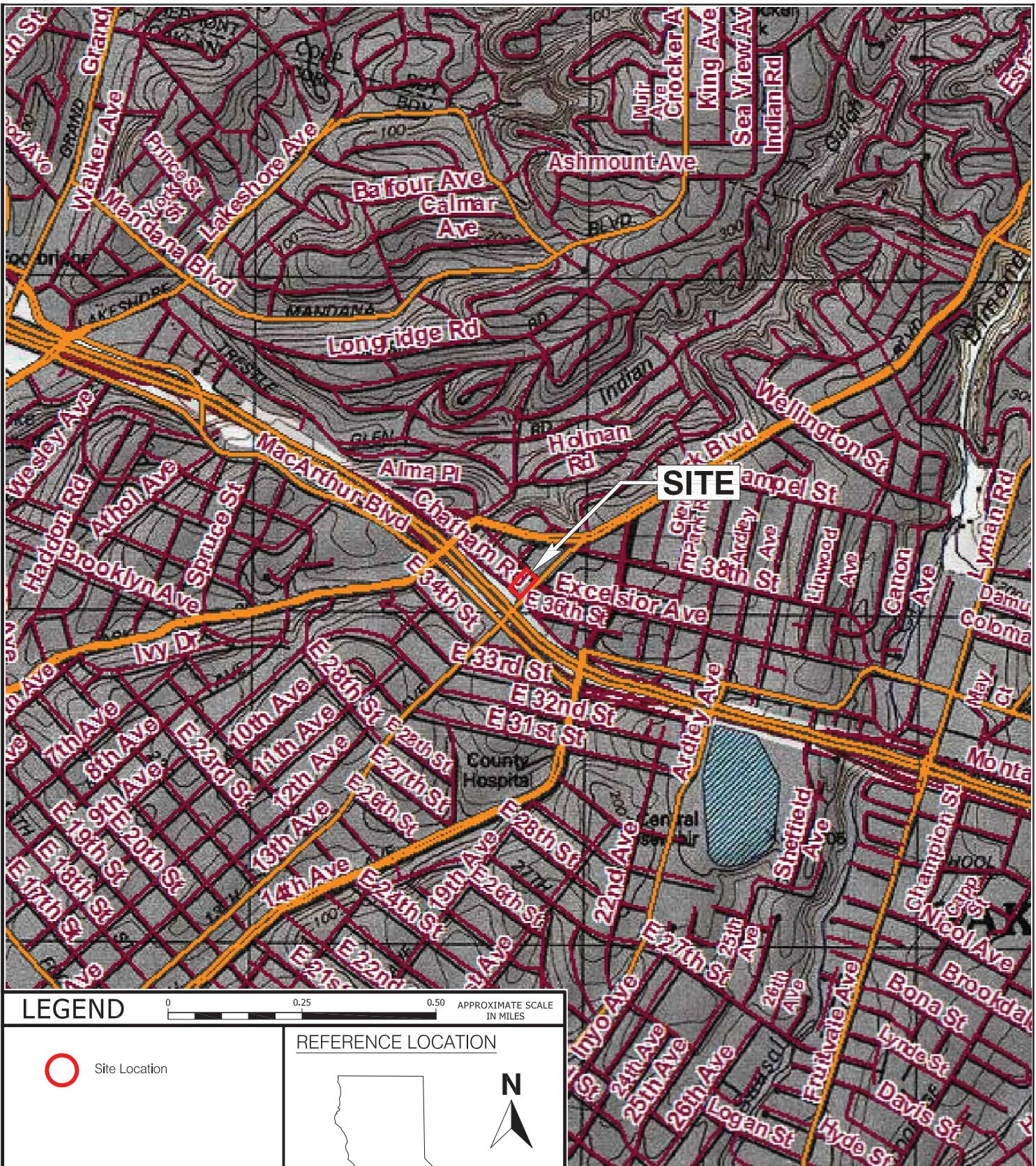
µg/L - micrograms per liter

Bold = Most recent sample

FIGURES



AEI Consultants



LEGEND



104

1

REFERENCE LOCATION



AEI Consultants

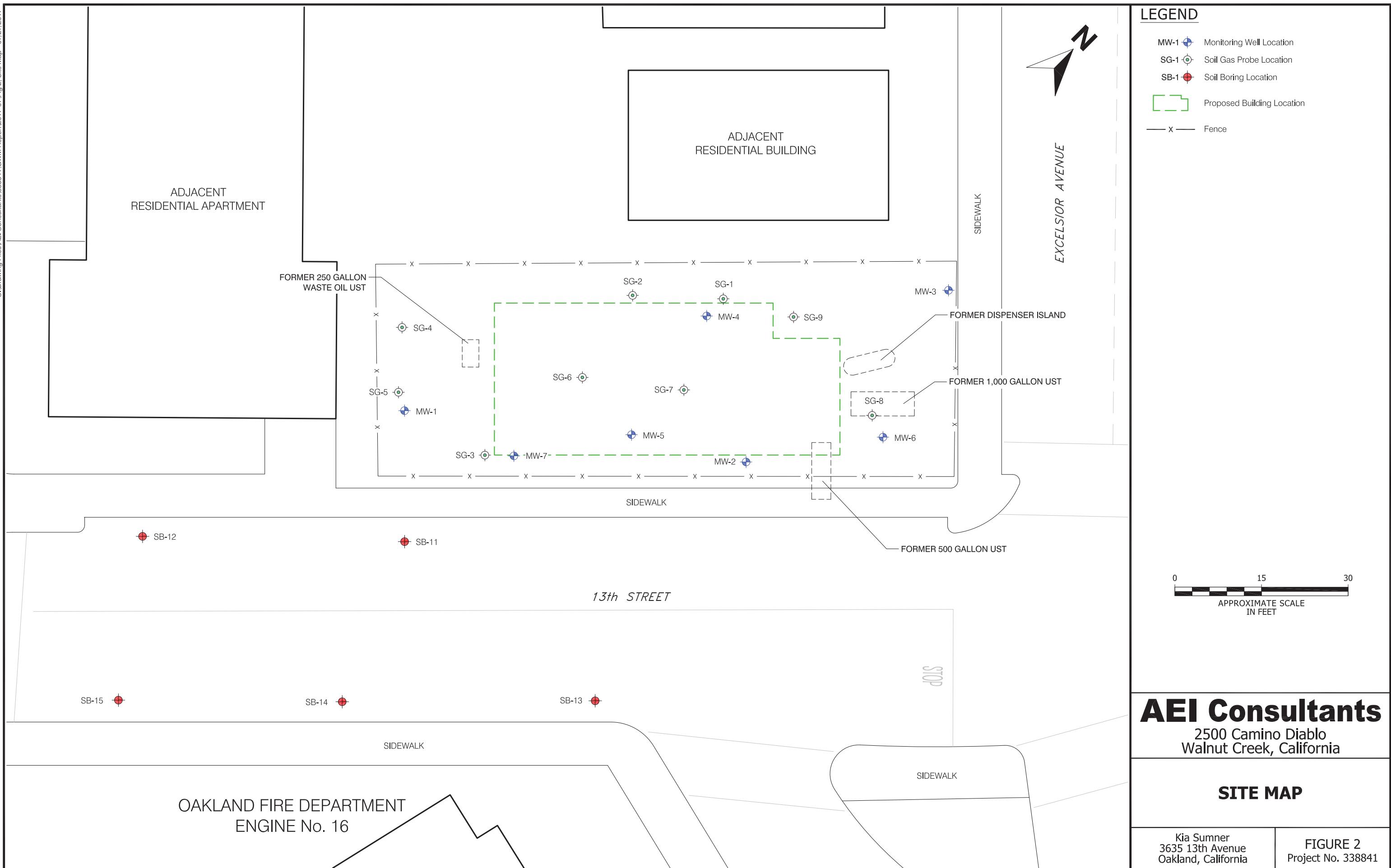
2500 Camino Diablo, Walnut Creek, California

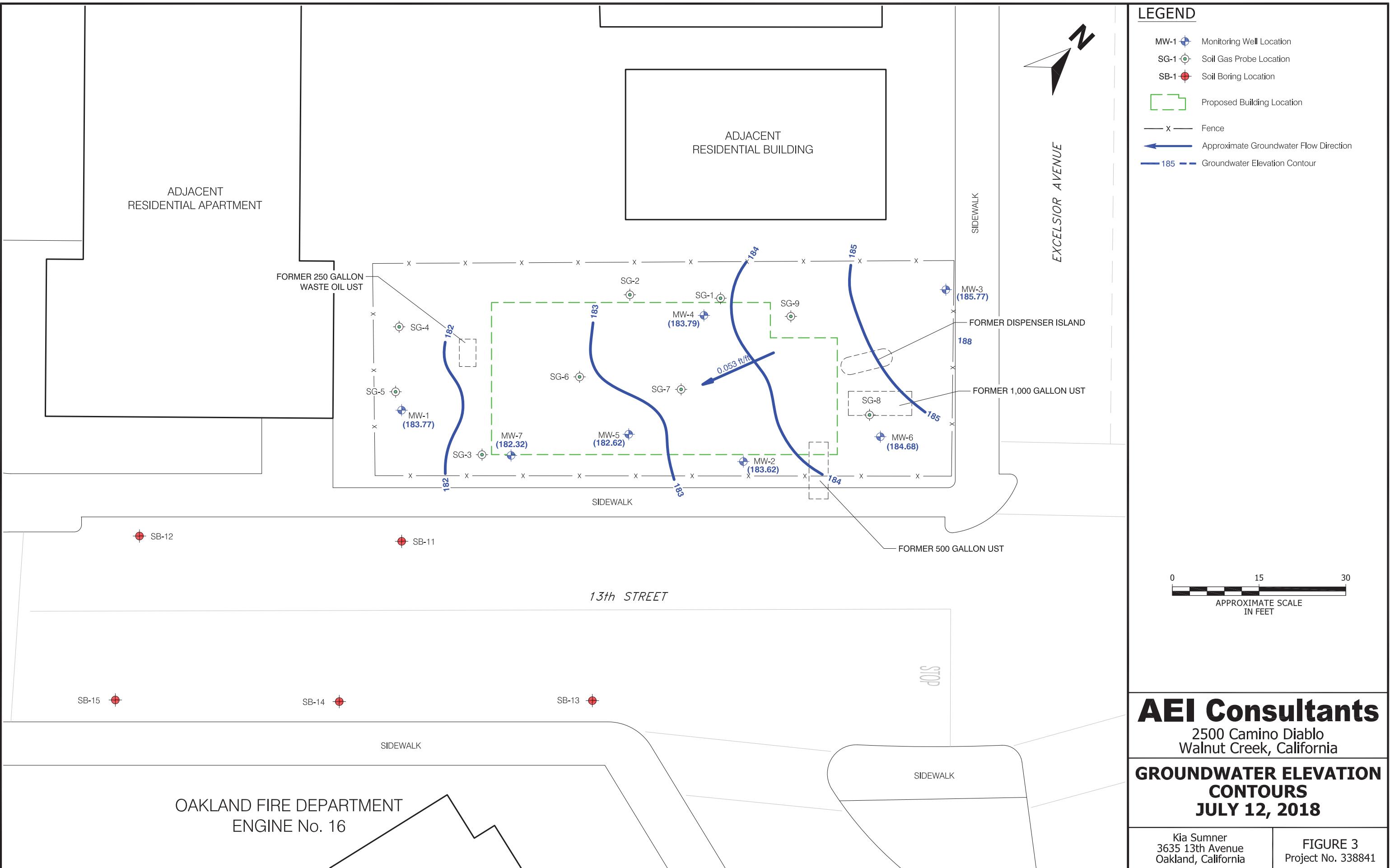
SITE LOCATION MAP

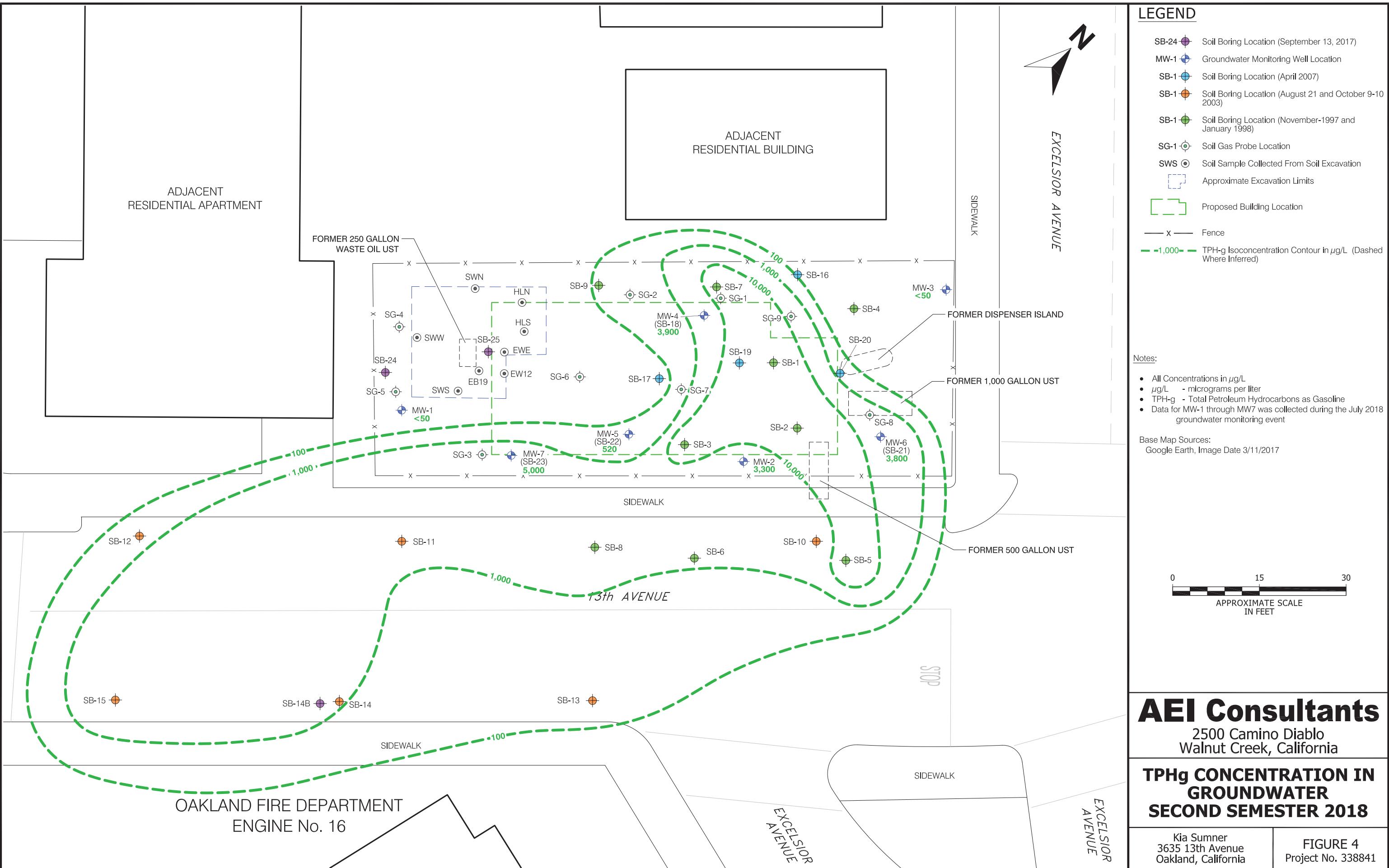
Kia Sumner
3635 13th Avenue
Oakland, California

FIGURE 1
Project No. 338841

Map Source:
USGS 7.5 Minute
Topographic Quadrangle Map,
Oakland East, CA - 1997









APPENDIX A
Field Data Sheets



AEI Consultants

Water Level Field Data Sheet
3635 13th Avenue
Oakland, California

Project Name: Kia
Project No.: 338841

Field Personnel: W. Hung / A. Kittredge

Site Location: 3635 13th Avenue, Oakland, California Date: 7/12/2018

Note: BTOC = below top of casing

N/A = not available

NM = not measured

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

MONITORING WELL DATA

| | |
|---|-------------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | Good |
| Elevation of Top of Casing (feet above msl) | 197.28 |
| Depth of Well | 24.29 |
| Depth to Water (from top of casing) | 15.17 |
| Water Elevation (feet above msl) | 8.57 ft |
| Well Volumes Purged | 4.11 gal |
| Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 1.37 gal |
| Actual Volume Purged (gallons) | 4.25 |
| Appearance of Purge Water | Milky light brown |
| Free Product Present? | No |
| | Thickness (ft): — |

GROUNDWATER SAMPLES

| Number of Samples/Container Size | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|----------------------------------|-------------------|---------------------|------|--|-----------|-----------|-----------------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 13:19 | Start | — | — | — | — | — | — |
| # 13:40 | 1.00 | 19.80 | 7.09 | 1247 | 2.09 | 85.6 | Milky lt. brown |
| 13:44 | 2.00 | 21.97 | 7.14 | 1275 | 1.73 | 92.7 | " " |
| 13:54 | 3.00 | 20.77 | 7.16 | 1254 | 1.74 | 95.2 | " " |
| 14:00 | 4.00 | 20.55 | 7.18 | 1239 | 2.32 | 99.7 | " " |
| 14:06 | — Sample — | — | — | — | — | — | — |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| |
|--|
| |
| |
| |
| |
| |

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

MONITORING WELL DATA

| | |
|---|------------------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | OK |
| Elevation of Top of Casing (feet above msl) | 198.93 |
| Depth of Well | 35.74 |
| Depth to Water (from top of casing) | 15.39 |
| Water Elevation (feet above msl) | 20.35 |
| Well Volumes Purged | 9.768 9.768 |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | +3.23 3.26 |
| Actual Volume Purged (gallons) | 9.15 |
| Appearance of Purge Water | dark gray |
| Free Product Present? | Sheen |
| | Thickness (ft): — |

GROUNDWATER SAMPLES

| Number of Samples/Container Size | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|----------------------------------|----------------------|---------------------|------|--|-----------|-----------|----------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 1145 | <u>Start Purging</u> | | | | | | |
| 1154 | 3.25 | 20.01 | 7.07 | 1104 | 0.50 | -90.8 | |
| 1210 | 7.50 | 20.40 | 7.15 | 1147 | 0.45 | -95.3 | |
| 1226 | 9.15 | 20.10 | 7.15 | 1161 | 1.41 | -42.1 | |
| 1229 | <u>Sampling</u> | | | | | | |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

MONITORING WELL DATA

| | |
|---|-------------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | OK |
| Elevation of Top of Casing (feet above msl) | 201.40 |
| Depth of Well | 35.67 |
| Depth to Water (from top of casing) | 15.80 |
| Water Elevation (feet above msl) | 19.87 |
| Well Volumes Purged | 5.9.53 |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 3.18 |
| Actual Volume Purged (gallons) | 9.50 |
| Appearance of Purge Water | light yellow |
| Free Product Present? | No |
| | Thickness (ft): — |

GROUNDWATER SAMPLES

| Number of Samples/Container Size | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|----------------------------------|-------------------|---------------------|------|--|-----------|-----------|----------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 12:54 | | Start purging | | | | | |
| 13:10 | 3.25 | 20.00 | 7.45 | 585 | 3.16 | 11.3 | — |
| 13:25 | 6.50 | 18.81 | 7.44 | 518 | 2.01 | 50.3 | — |
| 13:40 | 9.50 | 18.82 | 7.81 | 589 | 4.21 | 63.4 | — |
| 13:41 | | Sampling | | | | | |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

| MONITORING WELL DATA | |
|---|-------------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | OK |
| Elevation of Top of Casing (feet above msl) | |
| Depth of Well | 22.40 |
| Depth to Water (from top of casing) | 16.50 |
| Water Elevation (feet above msl) | 5.90 |
| Well Volumes Purged | 2.83 |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | .944 |
| Actual Volume Purged (gallons) | 1.25 |
| Appearance of Purge Water | clear |
| Free Product Present? | No |
| | Thickness (ft): — |

| GROUNDWATER SAMPLES | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|---------------------|-------------------|---------------------|------|--|-----------|-----------|-------------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 12:50 | — Start | — | — | — | — | — | — |
| 13:00 | 1.00 | 23.52 | 7.10 | 961 | 3.61 | 80.1 | gray cloudy |
| 13:15 | — well dry | dry | — | — | — | — | — |
| 14:20 | — Sampling | Sampling | — | — | — | — | — |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| |
|--|
| |
| |
| |
| |
| |

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

MONITORING WELL DATA

| | |
|---|-------------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | OK |
| Elevation of Top of Casing (feet above msl) | 198.52 |
| Depth of Well | 22.16 |
| Depth to Water (from top of casing) | 15.99 |
| Water Elevation (feet above msl) | 6.17 |
| Well Volumes Purged | 2.96 |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | .987 |
| Actual Volume Purged (gallons) | 2.25 |
| Appearance of Purge Water | Cloudy |
| Free Product Present? | No |
| | Thickness (ft): — |

GROUNDWATER SAMPLES

| Number of Samples/Container Size | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|----------------------------------|-------------------|---------------------|-----------|--|-----------|-----------|----------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 0945 | — | Start | beginning | — | — | — | — |
| 1002 | 1.00 | 21.30 | 6.80 | 1072 | 2.10 | -7.3 | — |
| 1009 | 2.00 | 19.60 | 6.81 | 1148 | 2.87 | -16.3 | — |
| 1016 | 2.25 | — | dry | — | — | — | — |
| 1108 | — | Sampy | — | — | — | — | — |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| |
|--|
| |
| |
| |
| |
| |

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-6

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

MONITORING WELL DATA

| | |
|---|-----------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | OK |
| Elevation of Top of Casing (feet above msl) | |
| Depth of Well | 22.42 |
| Depth to Water (from top of casing) | 15.61 |
| Water Elevation (feet above msl) | 6.81 |
| Well Volumes Purged | 3.27 |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 1.09 |
| Actual Volume Purged (gallons) | 3.30 |
| Appearance of Purge Water | Cloudy |
| Free Product Present? | Thickness (ft): |

GROUNDWATER SAMPLES

| Number of Samples/Container Size | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|----------------------------------|-------------------|---------------------|------|--|-----------|-----------|----------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 11:26 | Start | | | | | | |
| 11:35 | 1.0 | 21.85 | 7.02 | 1233 | 3.35 | -47.3 | |
| 11:46 | 2.0 | 21.55 | 7.00 | 1241 | 2.61 | -54.3 | |
| 12:10 | 3.0 | 20.12 | 9.13 | 1216 | 4.31 | -47.7 | |
| 12:21 | | Sampling | | | | | |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

* cloudy white gray color

AEI CONSULTANTS
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-7

| | | | |
|------------------|---------------------------|-------------------|------------|
| Project Name: | Kia | Date of Sampling: | 7/12/2018 |
| Job Number: | 338841 | Name of Sampler: | Wayne Hung |
| Project Address: | 3635 13th Avenue, Oakland | | |

MONITORING WELL DATA

| | |
|---|-----------------|
| Well Casing Diameter (2"/4"/6") | 2 |
| Wellhead Condition | OK |
| Elevation of Top of Casing (feet above msl) | 200.20 |
| Depth of Well | 21.30 |
| Depth to Water (from top of casing) | 15.35 |
| Water Elevation (feet above msl) | 5.95 |
| Well Volumes Purged | 2.85 / |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | .952 |
| Actual Volume Purged (gallons) | 3.00 |
| Appearance of Purge Water | cloudy |
| Free Product Present? | No |
| | Thickness (ft): |

GROUNDWATER SAMPLES

| Number of Samples/Container Size | | | | 2 Amber VOAs, 4 HCl VOAs, 1 Liter Amber | | | |
|----------------------------------|-------------------|---------------------|------|--|-----------|-----------|----------|
| Time | Vol Removed (gal) | Temperature (deg C) | pH | Conductivity ($\mu\text{S}/\text{cm}$) | DO (mg/L) | ORP (meV) | Comments |
| 1027 | Start | | | | | | |
| 1031 | 1.00 | 19.29 | 6.62 | 1340 | 2.21 | -13.7 | — |
| 1040 | 2.00 | 19.19 | 6.63 | 1539 | 1.91 | -9.2 | — |
| 1046 | 3.00 / | 19.06 | 6.66 | 1849 | 2.68 | -20.6 | — |
| 1050 | Sampling | | | | | | |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

| |
|--|
| |
| |
| |
| |
| |
| |

APPENDIX B

Laboratory Analytical Reports and Chain-of-Custody Documentation



AEI Consultants



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1807570

Amended: 08/01/2018

Report Created for: AEI Consultants

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

Project Contact: Wayne Hung

Project P.O.: 166990

Project: 338841

Project Received: 07/12/2018

Analytical Report reviewed & approved for release on 07/19/2018 by:

Christine Askari
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 the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 338841
WorkOrder: 1807570

Glossary Abbreviation

| | |
|--------------|--|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| 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 |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | 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 |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 338841
WorkOrder: 1807570

Analytical Qualifiers

| | |
|-------|--|
| S | Surrogate spike recovery outside accepted recovery limits |
| a3 | Sample diluted due to high organic content. |
| a19 | Reporting limit near, but not identical to our standard reporting limit due to variable sample volume |
| b1 | Aqueous sample that contains greater than ~1 vol. % sediment |
| b6 | Lighter than water immiscible sheen/product is present |
| e2 | Diesel range compounds are significant; no recognizable pattern |
| e4/e8 | Gasoline range compounds are significant.; and/or Pattern resembles kerosene/kerosene range/jet fuel range |
| e4 | Gasoline range compounds are significant. |
| e8 | Pattern resembles kerosene/kerosene range/jet fuel range |

Quality Control Qualifiers

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



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/16/18-7/18/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-1 | 1807570-001A | Water | 07/12/2018 14:06 | GC10 07161823.D | 161566 |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-----------------|---------------|-----------|-----------|----------------------|
| Benzene | ND | 0.50 | 1 | 07/16/2018 22:14 |
| Ethylbenzene | ND | 0.50 | 1 | 07/16/2018 22:14 |
| Toluene | ND | 0.50 | 1 | 07/16/2018 22:14 |
| Xylenes, Total | ND | 0.50 | 1 | 07/16/2018 22:14 |

| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
|----------------------|----------------|---------------|------------------|
| Dibromofluoromethane | 103 | 78-134 | 07/16/2018 22:14 |
| Toluene-d8 | 114 | 82-120 | 07/16/2018 22:14 |

Analyst(s): TK Analytical Comments: b1

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-2 | 1807570-002A | Water | 07/12/2018 12:29 | GC16 07171825.D | 161566 |

| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-----------|-----------|----------------------|
| Benzene | 210 | 10 | 20 | 07/18/2018 01:11 |
| Ethylbenzene | 50 | 10 | 20 | 07/18/2018 01:11 |
| Methyl-t-butyl ether (MTBE) | 19 | 10 | 20 | 07/18/2018 01:11 |
| Toluene | 14 | 10 | 20 | 07/18/2018 01:11 |
| Xylenes, Total | 48 | 10 | 20 | 07/18/2018 01:11 |

| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
|----------------------|----------------|---------------|------------------|
| Dibromofluoromethane | 108 | 78-134 | 07/18/2018 01:11 |
| Toluene-d8 | 108 | 82-120 | 07/18/2018 01:11 |

Analyst(s): KF Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/16/18-7/18/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-3 | 1807570-003A | Water | 07/12/2018 13:41 | GC10 07161816.D | 161566 |

| Analyses | Result | RL | DF | Date Analyzed |
|-----------------------------|--------|------|----|------------------|
| Benzene | ND | 0.50 | 1 | 07/16/2018 17:09 |
| Ethylbenzene | ND | 0.50 | 1 | 07/16/2018 17:09 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 07/16/2018 17:09 |
| Toluene | ND | 0.50 | 1 | 07/16/2018 17:09 |
| Xylenes, Total | ND | 0.50 | 1 | 07/16/2018 17:09 |

| Surrogates | REC (%) | Limits | |
|----------------------|---------|--------|------------------|
| Dibromofluoromethane | 110 | 78-134 | 07/16/2018 17:09 |
| Toluene-d8 | 115 | 82-120 | 07/16/2018 17:09 |

Analyst(s): TK Analytical Comments: b1

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-4 | 1807570-004A | Water | 07/12/2018 14:20 | GC16 07171826.D | 161566 |

| Analyses | Result | RL | DF | Date Analyzed |
|-----------------------------|--------|----|----|------------------|
| Benzene | 420 | 10 | 20 | 07/18/2018 01:52 |
| Ethylbenzene | 480 | 10 | 20 | 07/18/2018 01:52 |
| Methyl-t-butyl ether (MTBE) | 20 | 10 | 20 | 07/18/2018 01:52 |
| Toluene | 67 | 10 | 20 | 07/18/2018 01:52 |
| Xylenes, Total | 210 | 10 | 20 | 07/18/2018 01:52 |

| Surrogates | REC (%) | Limits | |
|----------------------|---------|--------|------------------|
| Dibromofluoromethane | 111 | 78-134 | 07/18/2018 01:52 |
| Toluene-d8 | 108 | 82-120 | 07/18/2018 01:52 |

Analyst(s): KF Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/16/18-7/18/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-5 | 1807570-005A | Water | 07/12/2018 11:08 | GC10 07161826.D | 161566 |

| Analyses | Result | RL | DF | Date Analyzed |
|-----------------------------|--------|-----|----|------------------|
| Benzene | 55 | 2.5 | 5 | 07/17/2018 00:18 |
| Ethylbenzene | 18 | 2.5 | 5 | 07/17/2018 00:18 |
| Methyl-t-butyl ether (MTBE) | 36 | 2.5 | 5 | 07/17/2018 00:18 |
| Toluene | ND | 2.5 | 5 | 07/17/2018 00:18 |
| Xylenes, Total | ND | 2.5 | 5 | 07/17/2018 00:18 |

| Surrogates | REC (%) | Limits | |
|----------------------|---------|--------|------------------|
| Dibromofluoromethane | 105 | 78-134 | 07/17/2018 00:18 |
| Toluene-d8 | 115 | 82-120 | 07/17/2018 00:18 |

Analyst(s): TK Analytical Comments: b1

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-6 | 1807570-006A | Water | 07/12/2018 12:21 | GC10 07161827.D | 161566 |

| Analyses | Result | RL | DF | Date Analyzed |
|-----------------------------|--------|----|----|------------------|
| Benzene | 140 | 10 | 20 | 07/17/2018 00:59 |
| Ethylbenzene | ND | 10 | 20 | 07/17/2018 00:59 |
| Methyl-t-butyl ether (MTBE) | 110 | 10 | 20 | 07/17/2018 00:59 |
| Toluene | ND | 10 | 20 | 07/17/2018 00:59 |
| Xylenes, Total | 19 | 10 | 20 | 07/17/2018 00:59 |

| Surrogates | REC (%) | Limits | |
|----------------------|---------|--------|------------------|
| Dibromofluoromethane | 103 | 78-134 | 07/17/2018 00:59 |
| Toluene-d8 | 115 | 82-120 | 07/17/2018 00:59 |

Analyst(s): TK Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/16/18-7/18/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|----------------|--------|-----------------------------|-----------------|----------------------|
| MW-7 | 1807570-007A | Water | 07/12/2018 10:50 | GC16 07171827.D | 161566 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Benzene | 2600 | | 100 | 200 | 07/18/2018 02:36 |
| Ethylbenzene | 150 | | 25 | 50 | 07/17/2018 01:40 |
| Toluene | ND | | 25 | 50 | 07/17/2018 01:40 |
| Xylenes, Total | ND | | 25 | 50 | 07/17/2018 01:40 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| Dibromofluoromethane | 109 | | 78-134 | | 07/18/2018 02:36 |
| Toluene-d8 | 106 | | 82-120 | | 07/18/2018 02:36 |
| <u>Analyst(s):</u> | KF, TK | | <u>Analytical Comments:</u> | b1 | |



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/16/18-7/17/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-------------------------|------------------|
| MW-1 | 1807570-001A | Water | 07/12/2018 14:06 | GC10 07161823.D | 161566 |
| Analyst(s): | TK | | | | |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 105 | | 78-134 | | 07/16/2018 22:14 |
| TPH(g) (C6-C12) | ND | | 50 | 1 | 07/16/2018 22:14 |
| Analyst(s): | TK | | | Analytical Comments: b1 | |
| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
| MW-2 | 1807570-002A | Water | 07/12/2018 12:29 | GC10 07161824.D | 161566 |
| Analyst(s): | TK | | | | |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 103 | | 78-134 | | 07/16/2018 22:55 |
| TPH(g) (C6-C12) | 3300 | | 250 | 5 | 07/16/2018 22:55 |
| Analyst(s): | TK | | | Analytical Comments: b1 | |
| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
| MW-3 | 1807570-003A | Water | 07/12/2018 13:41 | GC10 07161816.D | 161566 |
| Analyst(s): | TK | | | | |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 113 | | 78-134 | | 07/16/2018 17:09 |
| TPH(g) (C6-C12) | ND | | 50 | 1 | 07/16/2018 17:09 |
| Analyst(s): | TK | | | Analytical Comments: b1 | |
| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
| MW-4 | 1807570-004A | Water | 07/12/2018 14:20 | GC10 07161825.D | 161566 |
| Analyst(s): | TK | | | | |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 100 | | 78-134 | | 07/16/2018 23:37 |
| TPH(g) (C6-C12) | 3900 | | 250 | 5 | 07/16/2018 23:37 |
| Analyst(s): | TK | | | Analytical Comments: b1 | |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/16/18-7/17/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

TPH(g)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|--------------------------------|-----------------|----------------------|
| MW-5 | 1807570-005A | Water | 07/12/2018 11:08 | GC10 07161826.D | 161566 |
| Analyses | Result | | RL | DF | <u>Date Analyzed</u> |
| TPH(g) (C6-C12) | 520 | | 250 | 5 | 07/17/2018 00:18 |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 108 | | 78-134 | | 07/17/2018 00:18 |
| Analyst(s): | TK | | <u>Analytical Comments:</u> b1 | | |
| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
| MW-6 | 1807570-006A | Water | 07/12/2018 12:21 | GC10 07161813.D | 161566 |
| Analyses | Result | | RL | DF | <u>Date Analyzed</u> |
| TPH(g) (C6-C12) | 3800 | | 250 | 5 | 07/16/2018 14:58 |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 107 | | 78-134 | | 07/16/2018 14:58 |
| Analyst(s): | TK | | <u>Analytical Comments:</u> b1 | | |
| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
| MW-7 | 1807570-007A | Water | 07/12/2018 10:50 | GC10 07161828.D | 161566 |
| Analyses | Result | | RL | DF | <u>Date Analyzed</u> |
| TPH(g) (C6-C12) | 5000 | | 2500 | 50 | 07/17/2018 01:40 |
| Surrogates | REC (%) | | Limits | | |
| Dibromofluoromethane | 103 | | 78-134 | | 07/17/2018 01:40 |
| Analyst(s): | TK | | <u>Analytical Comments:</u> b1 | | |



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| MW-1 | 1807570-001C | Water | 07/12/2018 14:06 | GC21 07131811.D | 161373 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Acenaphthylene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Acetochlor | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Anthracene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Benzidine | ND | | 11 | 1 | 07/13/2018 15:20 |
| Benzo (a) anthracene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Benzo (a) pyrene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Benzo (b) fluoranthene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Benzo (g,h,i) perylene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Benzo (k) fluoranthene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Benzyl Alcohol | ND | | 11 | 1 | 07/13/2018 15:20 |
| 1,1-Biphenyl | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Bis (2-chloroethoxy) Methane | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Bis (2-chloroethyl) Ether | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Bis (2-chloroisopropyl) Ether | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Bis (2-ethylhexyl) Adipate | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Bis (2-ethylhexyl) Phthalate | ND | | 4.3 | 1 | 07/13/2018 15:20 |
| 4-Bromophenyl Phenyl Ether | ND | | 11 | 1 | 07/13/2018 15:20 |
| Butylbenzyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 4-Chloroaniline | ND | | 4.3 | 1 | 07/13/2018 15:20 |
| 4-Chloro-3-methylphenol | ND | | 11 | 1 | 07/13/2018 15:20 |
| 2-Chloronaphthalene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2-Chlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 4-Chlorophenyl Phenyl Ether | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Chrysene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Dibenzo (a,h) anthracene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Dibenzofuran | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Di-n-butyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 1,2-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 1,3-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 1,4-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 3,3-Dichlorobenzidine | ND | | 4.3 | 1 | 07/13/2018 15:20 |
| 2,4-Dichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2,6-Dichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Diethyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2,4-Dimethylphenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Dimethyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:20 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-1 | 1807570-001C | Water | 07/12/2018 14:06 | GC21 07131811.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 11 | 1 | 07/13/2018 15:20 |
| 2,4-Dinitrophenol | ND | | 27 | 1 | 07/13/2018 15:20 |
| 2,4-Dinitrotoluene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2,6-Dinitrotoluene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Di-n-octyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 1,2-Diphenylhydrazine | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Fluoranthene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Fluorene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Hexachlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Hexachlorobutadiene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Hexachlorocyclopentadiene | ND | | 11 | 1 | 07/13/2018 15:20 |
| Hexachloroethane | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Indeno (1,2,3-cd) pyrene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Isophorone | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2-Methylnaphthalene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2-Methylphenol (o-Cresol) | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Naphthalene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2-Nitroaniline | ND | | 11 | 1 | 07/13/2018 15:20 |
| 3-Nitroaniline | ND | | 11 | 1 | 07/13/2018 15:20 |
| 4-Nitroaniline | ND | | 11 | 1 | 07/13/2018 15:20 |
| Nitrobenzene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2-Nitrophenol | ND | | 11 | 1 | 07/13/2018 15:20 |
| 4-Nitrophenol | ND | | 11 | 1 | 07/13/2018 15:20 |
| N-Nitrosodiphenylamine | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| N-Nitrosodi-n-propylamine | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Pentachlorophenol | ND | | 11 | 1 | 07/13/2018 15:20 |
| Phenanthrene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Phenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Pyrene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| Pyridine | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 1,2,4-Trichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2,4,5-Trichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |
| 2,4,6-Trichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:20 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-1 | 1807570-001C | Water | 07/12/2018 14:06 | GC21 07131811.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 50 | | 8-130 | | 07/13/2018 15:20 |
| Phenol-d5 | 39 | | 5-130 | | 07/13/2018 15:20 |
| Nitrobenzene-d5 | 87 | | 20-140 | | 07/13/2018 15:20 |
| 2-Fluorobiphenyl | 81 | | 40-140 | | 07/13/2018 15:20 |
| 2,4,6-Tribromophenol | 102 | | 16-180 | | 07/13/2018 15:20 |
| 4-Terphenyl-d14 | 91 | | 40-170 | | 07/13/2018 15:20 |

Analyst(s): REB

Analytical Comments: a19,b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| MW-2 | 1807570-002C | Water | 07/12/2018 12:29 | GC21 07131812.D | 161373 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Acenaphthylene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Acetochlor | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Anthracene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Benzidine | ND | | 10 | 1 | 07/13/2018 15:47 |
| Benzo (a) anthracene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Benzo (a) pyrene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Benzo (b) fluoranthene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Benzo (g,h,i) perylene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Benzo (k) fluoranthene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Benzyl Alcohol | ND | | 10 | 1 | 07/13/2018 15:47 |
| 1,1-Biphenyl | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Bis (2-chloroethoxy) Methane | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Bis (2-chloroethyl) Ether | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Bis (2-chloroisopropyl) Ether | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Bis (2-ethylhexyl) Adipate | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Bis (2-ethylhexyl) Phthalate | 14 | | 4.2 | 1 | 07/13/2018 15:47 |
| 4-Bromophenyl Phenyl Ether | ND | | 10 | 1 | 07/13/2018 15:47 |
| Butylbenzyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 4-Chloroaniline | ND | | 4.2 | 1 | 07/13/2018 15:47 |
| 4-Chloro-3-methylphenol | ND | | 10 | 1 | 07/13/2018 15:47 |
| 2-Chloronaphthalene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2-Chlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 4-Chlorophenyl Phenyl Ether | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Chrysene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Dibenzo (a,h) anthracene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Dibenzofuran | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Di-n-butyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 1,2-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 1,3-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 1,4-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 3,3-Dichlorobenzidine | ND | | 4.2 | 1 | 07/13/2018 15:47 |
| 2,4-Dichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2,6-Dichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Diethyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2,4-Dimethylphenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Dimethyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:47 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-2 | 1807570-002C | Water | 07/12/2018 12:29 | GC21 07131812.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 10 | 1 | 07/13/2018 15:47 |
| 2,4-Dinitrophenol | ND | | 26 | 1 | 07/13/2018 15:47 |
| 2,4-Dinitrotoluene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2,6-Dinitrotoluene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Di-n-octyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 1,2-Diphenylhydrazine | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Fluoranthene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Fluorene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Hexachlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Hexachlorobutadiene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Hexachlorocyclopentadiene | ND | | 10 | 1 | 07/13/2018 15:47 |
| Hexachloroethane | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Indeno (1,2,3-cd) pyrene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Isophorone | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2-Methylnaphthalene | 4.3 | | 2.1 | 1 | 07/13/2018 15:47 |
| 2-Methylphenol (o-Cresol) | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Naphthalene | 15 | | 2.1 | 1 | 07/13/2018 15:47 |
| 2-Nitroaniline | ND | | 10 | 1 | 07/13/2018 15:47 |
| 3-Nitroaniline | ND | | 10 | 1 | 07/13/2018 15:47 |
| 4-Nitroaniline | ND | | 10 | 1 | 07/13/2018 15:47 |
| Nitrobenzene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2-Nitrophenol | ND | | 10 | 1 | 07/13/2018 15:47 |
| 4-Nitrophenol | ND | | 10 | 1 | 07/13/2018 15:47 |
| N-Nitrosodiphenylamine | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| N-Nitrosodi-n-propylamine | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Pentachlorophenol | ND | | 10 | 1 | 07/13/2018 15:47 |
| Phenanthrene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Phenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Pyrene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| Pyridine | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 1,2,4-Trichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2,4,5-Trichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |
| 2,4,6-Trichlorophenol | ND | | 2.1 | 1 | 07/13/2018 15:47 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-2 | 1807570-002C | Water | 07/12/2018 12:29 | GC21 07131812.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 32 | | 8-130 | | 07/13/2018 15:47 |
| Phenol-d5 | 31 | | 5-130 | | 07/13/2018 15:47 |
| Nitrobenzene-d5 | 95 | | 20-140 | | 07/13/2018 15:47 |
| 2-Fluorobiphenyl | 77 | | 40-140 | | 07/13/2018 15:47 |
| 2,4,6-Tribromophenol | 77 | | 16-180 | | 07/13/2018 15:47 |
| 4-Terphenyl-d14 | 89 | | 40-170 | | 07/13/2018 15:47 |

Analyst(s): REB

Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| MW-3 | 1807570-003C | Water | 07/12/2018 13:41 | GC21 07131813.D | 161373 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Acenaphthylene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Acetochlor | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Anthracene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Benzidine | ND | | 10 | 1 | 07/13/2018 16:15 |
| Benzo (a) anthracene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Benzo (a) pyrene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Benzo (b) fluoranthene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Benzo (g,h,i) perylene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Benzo (k) fluoranthene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Benzyl Alcohol | ND | | 10 | 1 | 07/13/2018 16:15 |
| 1,1-Biphenyl | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Bis (2-chloroethoxy) Methane | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Bis (2-chloroethyl) Ether | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Bis (2-chloroisopropyl) Ether | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Bis (2-ethylhexyl) Adipate | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Bis (2-ethylhexyl) Phthalate | ND | | 4.2 | 1 | 07/13/2018 16:15 |
| 4-Bromophenyl Phenyl Ether | ND | | 10 | 1 | 07/13/2018 16:15 |
| Butylbenzyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 4-Chloroaniline | ND | | 4.2 | 1 | 07/13/2018 16:15 |
| 4-Chloro-3-methylphenol | ND | | 10 | 1 | 07/13/2018 16:15 |
| 2-Chloronaphthalene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2-Chlorophenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 4-Chlorophenyl Phenyl Ether | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Chrysene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Dibenzo (a,h) anthracene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Dibenzofuran | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Di-n-butyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 1,2-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 1,3-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 1,4-Dichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 3,3-Dichlorobenzidine | ND | | 4.2 | 1 | 07/13/2018 16:15 |
| 2,4-Dichlorophenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2,6-Dichlorophenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Diethyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2,4-Dimethylphenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Dimethyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 16:15 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-3 | 1807570-003C | Water | 07/12/2018 13:41 | GC21 07131813.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 10 | 1 | 07/13/2018 16:15 |
| 2,4-Dinitrophenol | ND | | 26 | 1 | 07/13/2018 16:15 |
| 2,4-Dinitrotoluene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2,6-Dinitrotoluene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Di-n-octyl Phthalate | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 1,2-Diphenylhydrazine | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Fluoranthene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Fluorene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Hexachlorobenzene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Hexachlorobutadiene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Hexachlorocyclopentadiene | ND | | 10 | 1 | 07/13/2018 16:15 |
| Hexachloroethane | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Indeno (1,2,3-cd) pyrene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Isophorone | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2-Methylnaphthalene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2-Methylphenol (o-Cresol) | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Naphthalene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2-Nitroaniline | ND | | 10 | 1 | 07/13/2018 16:15 |
| 3-Nitroaniline | ND | | 10 | 1 | 07/13/2018 16:15 |
| 4-Nitroaniline | ND | | 10 | 1 | 07/13/2018 16:15 |
| Nitrobenzene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2-Nitrophenol | ND | | 10 | 1 | 07/13/2018 16:15 |
| 4-Nitrophenol | ND | | 10 | 1 | 07/13/2018 16:15 |
| N-Nitrosodiphenylamine | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| N-Nitrosodi-n-propylamine | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Pentachlorophenol | ND | | 10 | 1 | 07/13/2018 16:15 |
| Phenanthrene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Phenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Pyrene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| Pyridine | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 1,2,4-Trichlorobenzene | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2,4,5-Trichlorophenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |
| 2,4,6-Trichlorophenol | ND | | 2.1 | 1 | 07/13/2018 16:15 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-3 | 1807570-003C | Water | 07/12/2018 13:41 | GC21 07131813.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 45 | | 8-130 | | 07/13/2018 16:15 |
| Phenol-d5 | 36 | | 5-130 | | 07/13/2018 16:15 |
| Nitrobenzene-d5 | 66 | | 20-140 | | 07/13/2018 16:15 |
| 2-Fluorobiphenyl | 64 | | 40-140 | | 07/13/2018 16:15 |
| 2,4,6-Tribromophenol | 105 | | 16-180 | | 07/13/2018 16:15 |
| 4-Terphenyl-d14 | 87 | | 40-170 | | 07/13/2018 16:15 |

Analyst(s): REB

Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| MW-4 | 1807570-004C | Water | 07/12/2018 14:20 | GC21 07131814.D | 161373 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Acenaphthylene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Acetochlor | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Anthracene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Benzidine | ND | | 21 | 2 | 07/13/2018 16:43 |
| Benzo (a) anthracene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Benzo (a) pyrene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Benzo (b) fluoranthene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Benzo (g,h,i) perylene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Benzo (k) fluoranthene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Benzyl Alcohol | ND | | 21 | 2 | 07/13/2018 16:43 |
| 1,1-Biphenyl | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Bis (2-chloroethoxy) Methane | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Bis (2-chloroethyl) Ether | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Bis (2-chloroisopropyl) Ether | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Bis (2-ethylhexyl) Adipate | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Bis (2-ethylhexyl) Phthalate | ND | | 8.3 | 2 | 07/13/2018 16:43 |
| 4-Bromophenyl Phenyl Ether | ND | | 21 | 2 | 07/13/2018 16:43 |
| Butylbenzyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 4-Chloroaniline | 45 | | 8.3 | 2 | 07/13/2018 16:43 |
| 4-Chloro-3-methylphenol | ND | | 21 | 2 | 07/13/2018 16:43 |
| 2-Chloronaphthalene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2-Chlorophenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 4-Chlorophenyl Phenyl Ether | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Chrysene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Dibenzo (a,h) anthracene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Dibenzofuran | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Di-n-butyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 1,2-Dichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 1,3-Dichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 1,4-Dichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 3,3-Dichlorobenzidine | ND | | 8.3 | 2 | 07/13/2018 16:43 |
| 2,4-Dichlorophenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2,6-Dichlorophenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Diethyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2,4-Dimethylphenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Dimethyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 16:43 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-4 | 1807570-004C | Water | 07/12/2018 14:20 | GC21 07131814.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 21 | 2 | 07/13/2018 16:43 |
| 2,4-Dinitrophenol | ND | | 52 | 2 | 07/13/2018 16:43 |
| 2,4-Dinitrotoluene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2,6-Dinitrotoluene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Di-n-octyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 1,2-Diphenylhydrazine | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Fluoranthene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Fluorene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Hexachlorobenzene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Hexachlorobutadiene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Hexachlorocyclopentadiene | ND | | 21 | 2 | 07/13/2018 16:43 |
| Hexachloroethane | 100 | | 4.2 | 2 | 07/13/2018 16:43 |
| Indeno (1,2,3-cd) pyrene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Isophorone | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2-Methylnaphthalene | 6.1 | | 4.2 | 2 | 07/13/2018 16:43 |
| 2-Methylphenol (o-Cresol) | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Naphthalene | 140 | | 4.2 | 2 | 07/13/2018 16:43 |
| 2-Nitroaniline | ND | | 21 | 2 | 07/13/2018 16:43 |
| 3-Nitroaniline | ND | | 21 | 2 | 07/13/2018 16:43 |
| 4-Nitroaniline | ND | | 21 | 2 | 07/13/2018 16:43 |
| Nitrobenzene | 6.9 | | 4.2 | 2 | 07/13/2018 16:43 |
| 2-Nitrophenol | ND | | 21 | 2 | 07/13/2018 16:43 |
| 4-Nitrophenol | ND | | 21 | 2 | 07/13/2018 16:43 |
| N-Nitrosodiphenylamine | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| N-Nitrosodi-n-propylamine | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Pentachlorophenol | ND | | 21 | 2 | 07/13/2018 16:43 |
| Phenanthrene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Phenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Pyrene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| Pyridine | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 1,2,4-Trichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2,4,5-Trichlorophenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |
| 2,4,6-Trichlorophenol | ND | | 4.2 | 2 | 07/13/2018 16:43 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-4 | 1807570-004C | Water | 07/12/2018 14:20 | GC21 07131814.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 33 | | 8-130 | | 07/13/2018 16:43 |
| Phenol-d5 | 32 | | 5-130 | | 07/13/2018 16:43 |
| Nitrobenzene-d5 | 97 | | 20-140 | | 07/13/2018 16:43 |
| 2-Fluorobiphenyl | 93 | | 40-140 | | 07/13/2018 16:43 |
| 2,4,6-Tribromophenol | 61 | | 16-180 | | 07/13/2018 16:43 |
| 4-Terphenyl-d14 | 105 | | 40-170 | | 07/13/2018 16:43 |

Analyst(s): REB

Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-5 | 1807570-005C | Water | 07/12/2018 11:08 | GC21 07131815.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| Acenaphthene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Acenaphthylene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Acetochlor | ND | | 10 | 5 | 07/13/2018 17:10 |
| Anthracene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Benzidine | ND | | 52 | 5 | 07/13/2018 17:10 |
| Benzo (a) anthracene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Benzo (a) pyrene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Benzo (b) fluoranthene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Benzo (g,h,i) perylene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Benzo (k) fluoranthene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Benzyl Alcohol | ND | | 52 | 5 | 07/13/2018 17:10 |
| 1,1-Biphenyl | ND | | 10 | 5 | 07/13/2018 17:10 |
| Bis (2-chloroethoxy) Methane | ND | | 10 | 5 | 07/13/2018 17:10 |
| Bis (2-chloroethyl) Ether | ND | | 10 | 5 | 07/13/2018 17:10 |
| Bis (2-chloroisopropyl) Ether | ND | | 10 | 5 | 07/13/2018 17:10 |
| Bis (2-ethylhexyl) Adipate | ND | | 10 | 5 | 07/13/2018 17:10 |
| Bis (2-ethylhexyl) Phthalate | ND | | 21 | 5 | 07/13/2018 17:10 |
| 4-Bromophenyl Phenyl Ether | ND | | 52 | 5 | 07/13/2018 17:10 |
| Butylbenzyl Phthalate | ND | | 10 | 5 | 07/13/2018 17:10 |
| 4-Chloroaniline | ND | | 21 | 5 | 07/13/2018 17:10 |
| 4-Chloro-3-methylphenol | ND | | 52 | 5 | 07/13/2018 17:10 |
| 2-Chloronaphthalene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2-Chlorophenol | ND | | 10 | 5 | 07/13/2018 17:10 |
| 4-Chlorophenyl Phenyl Ether | ND | | 10 | 5 | 07/13/2018 17:10 |
| Chrysene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Dibenzo (a,h) anthracene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Dibenzofuran | ND | | 10 | 5 | 07/13/2018 17:10 |
| Di-n-butyl Phthalate | ND | | 10 | 5 | 07/13/2018 17:10 |
| 1,2-Dichlorobenzene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 1,3-Dichlorobenzene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 1,4-Dichlorobenzene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 3,3-Dichlorobenzidine | ND | | 21 | 5 | 07/13/2018 17:10 |
| 2,4-Dichlorophenol | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2,6-Dichlorophenol | ND | | 10 | 5 | 07/13/2018 17:10 |
| Diethyl Phthalate | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2,4-Dimethylphenol | ND | | 10 | 5 | 07/13/2018 17:10 |
| Dimethyl Phthalate | ND | | 10 | 5 | 07/13/2018 17:10 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-5 | 1807570-005C | Water | 07/12/2018 11:08 | GC21 07131815.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 52 | 5 | 07/13/2018 17:10 |
| 2,4-Dinitrophenol | ND | | 130 | 5 | 07/13/2018 17:10 |
| 2,4-Dinitrotoluene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2,6-Dinitrotoluene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Di-n-octyl Phthalate | ND | | 10 | 5 | 07/13/2018 17:10 |
| 1,2-Diphenylhydrazine | ND | | 10 | 5 | 07/13/2018 17:10 |
| Fluoranthene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Fluorene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Hexachlorobenzene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Hexachlorobutadiene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Hexachlorocyclopentadiene | ND | | 52 | 5 | 07/13/2018 17:10 |
| Hexachloroethane | ND | | 10 | 5 | 07/13/2018 17:10 |
| Indeno (1,2,3-cd) pyrene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Isophorone | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2-Methylnaphthalene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2-Methylphenol (o-Cresol) | ND | | 10 | 5 | 07/13/2018 17:10 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 10 | 5 | 07/13/2018 17:10 |
| Naphthalene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2-Nitroaniline | ND | | 52 | 5 | 07/13/2018 17:10 |
| 3-Nitroaniline | ND | | 52 | 5 | 07/13/2018 17:10 |
| 4-Nitroaniline | ND | | 52 | 5 | 07/13/2018 17:10 |
| Nitrobenzene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2-Nitrophenol | ND | | 52 | 5 | 07/13/2018 17:10 |
| 4-Nitrophenol | ND | | 52 | 5 | 07/13/2018 17:10 |
| N-Nitrosodiphenylamine | ND | | 10 | 5 | 07/13/2018 17:10 |
| N-Nitrosodi-n-propylamine | ND | | 10 | 5 | 07/13/2018 17:10 |
| Pentachlorophenol | ND | | 52 | 5 | 07/13/2018 17:10 |
| Phenanthrene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Phenol | ND | | 10 | 5 | 07/13/2018 17:10 |
| Pyrene | ND | | 10 | 5 | 07/13/2018 17:10 |
| Pyridine | ND | | 10 | 5 | 07/13/2018 17:10 |
| 1,2,4-Trichlorobenzene | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2,4,5-Trichlorophenol | ND | | 10 | 5 | 07/13/2018 17:10 |
| 2,4,6-Trichlorophenol | ND | | 10 | 5 | 07/13/2018 17:10 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-5 | 1807570-005C | Water | 07/12/2018 11:08 | GC21 07131815.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 33 | | 8-130 | | 07/13/2018 17:10 |
| Phenol-d5 | 38 | | 5-130 | | 07/13/2018 17:10 |
| Nitrobenzene-d5 | 100 | | 20-140 | | 07/13/2018 17:10 |
| 2-Fluorobiphenyl | 97 | | 40-140 | | 07/13/2018 17:10 |
| 2,4,6-Tribromophenol | 38 | | 16-180 | | 07/13/2018 17:10 |
| 4-Terphenyl-d14 | 125 | | 40-170 | | 07/13/2018 17:10 |

Analyst(s): REB

Analytical Comments: a3,b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| MW-6 | 1807570-006C | Water | 07/12/2018 12:21 | GC21 07131816.D | 161373 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Acenaphthylene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Acetochlor | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Anthracene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Benzidine | ND | | 21 | 2 | 07/13/2018 17:38 |
| Benzo (a) anthracene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Benzo (a) pyrene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Benzo (b) fluoranthene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Benzo (g,h,i) perylene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Benzo (k) fluoranthene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Benzyl Alcohol | ND | | 21 | 2 | 07/13/2018 17:38 |
| 1,1-Biphenyl | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Bis (2-chloroethoxy) Methane | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Bis (2-chloroethyl) Ether | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Bis (2-chloroisopropyl) Ether | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Bis (2-ethylhexyl) Adipate | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Bis (2-ethylhexyl) Phthalate | ND | | 8.3 | 2 | 07/13/2018 17:38 |
| 4-Bromophenyl Phenyl Ether | ND | | 21 | 2 | 07/13/2018 17:38 |
| Butylbenzyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 4-Chloroaniline | ND | | 8.3 | 2 | 07/13/2018 17:38 |
| 4-Chloro-3-methylphenol | ND | | 21 | 2 | 07/13/2018 17:38 |
| 2-Chloronaphthalene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2-Chlorophenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 4-Chlorophenyl Phenyl Ether | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Chrysene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Dibenzo (a,h) anthracene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Dibenzofuran | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Di-n-butyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 1,2-Dichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 1,3-Dichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 1,4-Dichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 3,3-Dichlorobenzidine | ND | | 8.3 | 2 | 07/13/2018 17:38 |
| 2,4-Dichlorophenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2,6-Dichlorophenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Diethyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2,4-Dimethylphenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Dimethyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 17:38 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-6 | 1807570-006C | Water | 07/12/2018 12:21 | GC21 07131816.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 21 | 2 | 07/13/2018 17:38 |
| 2,4-Dinitrophenol | ND | | 52 | 2 | 07/13/2018 17:38 |
| 2,4-Dinitrotoluene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2,6-Dinitrotoluene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Di-n-octyl Phthalate | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 1,2-Diphenylhydrazine | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Fluoranthene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Fluorene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Hexachlorobenzene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Hexachlorobutadiene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Hexachlorocyclopentadiene | ND | | 21 | 2 | 07/13/2018 17:38 |
| Hexachloroethane | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Indeno (1,2,3-cd) pyrene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Isophorone | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2-Methylnaphthalene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2-Methylphenol (o-Cresol) | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Naphthalene | 33 | | 4.2 | 2 | 07/13/2018 17:38 |
| 2-Nitroaniline | ND | | 21 | 2 | 07/13/2018 17:38 |
| 3-Nitroaniline | ND | | 21 | 2 | 07/13/2018 17:38 |
| 4-Nitroaniline | ND | | 21 | 2 | 07/13/2018 17:38 |
| Nitrobenzene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2-Nitrophenol | ND | | 21 | 2 | 07/13/2018 17:38 |
| 4-Nitrophenol | ND | | 21 | 2 | 07/13/2018 17:38 |
| N-Nitrosodiphenylamine | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| N-Nitrosodi-n-propylamine | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Pentachlorophenol | ND | | 21 | 2 | 07/13/2018 17:38 |
| Phenanthrene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Phenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Pyrene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| Pyridine | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 1,2,4-Trichlorobenzene | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2,4,5-Trichlorophenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |
| 2,4,6-Trichlorophenol | ND | | 4.2 | 2 | 07/13/2018 17:38 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-6 | 1807570-006C | Water | 07/12/2018 12:21 | GC21 07131816.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 20 | | 8-130 | | 07/13/2018 17:38 |
| Phenol-d5 | 25 | | 5-130 | | 07/13/2018 17:38 |
| Nitrobenzene-d5 | 93 | | 20-140 | | 07/13/2018 17:38 |
| 2-Fluorobiphenyl | 89 | | 40-140 | | 07/13/2018 17:38 |
| 2,4,6-Tribromophenol | 52 | | 16-180 | | 07/13/2018 17:38 |
| 4-Terphenyl-d14 | 98 | | 40-170 | | 07/13/2018 17:38 |

Analyst(s): REB

Analytical Comments: b1

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|-----------------|----------------------|
| MW-7 | 1807570-007C | Water | 07/12/2018 10:50 | GC21 07131817.D | 161373 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Acenaphthylene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Acetochlor | ND | | 21 | 10 | 07/13/2018 18:06 |
| Anthracene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Benzidine | ND | | 100 | 10 | 07/13/2018 18:06 |
| Benzo (a) anthracene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Benzo (a) pyrene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Benzo (b) fluoranthene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Benzo (g,h,i) perylene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Benzo (k) fluoranthene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Benzyl Alcohol | ND | | 100 | 10 | 07/13/2018 18:06 |
| 1,1-Biphenyl | ND | | 21 | 10 | 07/13/2018 18:06 |
| Bis (2-chloroethoxy) Methane | ND | | 21 | 10 | 07/13/2018 18:06 |
| Bis (2-chloroethyl) Ether | ND | | 21 | 10 | 07/13/2018 18:06 |
| Bis (2-chloroisopropyl) Ether | ND | | 21 | 10 | 07/13/2018 18:06 |
| Bis (2-ethylhexyl) Adipate | ND | | 21 | 10 | 07/13/2018 18:06 |
| Bis (2-ethylhexyl) Phthalate | ND | | 41 | 10 | 07/13/2018 18:06 |
| 4-Bromophenyl Phenyl Ether | ND | | 100 | 10 | 07/13/2018 18:06 |
| Butylbenzyl Phthalate | ND | | 21 | 10 | 07/13/2018 18:06 |
| 4-Chloroaniline | ND | | 41 | 10 | 07/13/2018 18:06 |
| 4-Chloro-3-methylphenol | ND | | 100 | 10 | 07/13/2018 18:06 |
| 2-Chloronaphthalene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2-Chlorophenol | ND | | 21 | 10 | 07/13/2018 18:06 |
| 4-Chlorophenyl Phenyl Ether | ND | | 21 | 10 | 07/13/2018 18:06 |
| Chrysene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Dibenzo (a,h) anthracene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Dibenzofuran | ND | | 21 | 10 | 07/13/2018 18:06 |
| Di-n-butyl Phthalate | ND | | 21 | 10 | 07/13/2018 18:06 |
| 1,2-Dichlorobenzene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 1,3-Dichlorobenzene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 1,4-Dichlorobenzene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 3,3-Dichlorobenzidine | ND | | 41 | 10 | 07/13/2018 18:06 |
| 2,4-Dichlorophenol | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2,6-Dichlorophenol | ND | | 21 | 10 | 07/13/2018 18:06 |
| Diethyl Phthalate | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2,4-Dimethylphenol | ND | | 21 | 10 | 07/13/2018 18:06 |
| Dimethyl Phthalate | ND | | 21 | 10 | 07/13/2018 18:06 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|--------|------------------|-----------------|------------------|
| MW-7 | 1807570-007C | Water | 07/12/2018 10:50 | GC21 07131817.D | 161373 |
| Analyses | Result | | RL | DF | Date Analyzed |
| 4,6-Dinitro-2-methylphenol | ND | | 100 | 10 | 07/13/2018 18:06 |
| 2,4-Dinitrophenol | ND | | 260 | 10 | 07/13/2018 18:06 |
| 2,4-Dinitrotoluene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2,6-Dinitrotoluene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Di-n-octyl Phthalate | ND | | 21 | 10 | 07/13/2018 18:06 |
| 1,2-Diphenylhydrazine | ND | | 21 | 10 | 07/13/2018 18:06 |
| Fluoranthene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Fluorene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Hexachlorobenzene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Hexachlorobutadiene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Hexachlorocyclopentadiene | ND | | 100 | 10 | 07/13/2018 18:06 |
| Hexachloroethane | ND | | 21 | 10 | 07/13/2018 18:06 |
| Indeno (1,2,3-cd) pyrene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Isophorone | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2-Methylnaphthalene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2-Methylphenol (o-Cresol) | ND | | 21 | 10 | 07/13/2018 18:06 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 21 | 10 | 07/13/2018 18:06 |
| Naphthalene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2-Nitroaniline | ND | | 100 | 10 | 07/13/2018 18:06 |
| 3-Nitroaniline | ND | | 100 | 10 | 07/13/2018 18:06 |
| 4-Nitroaniline | ND | | 100 | 10 | 07/13/2018 18:06 |
| Nitrobenzene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2-Nitrophenol | ND | | 100 | 10 | 07/13/2018 18:06 |
| 4-Nitrophenol | ND | | 100 | 10 | 07/13/2018 18:06 |
| N-Nitrosodiphenylamine | ND | | 21 | 10 | 07/13/2018 18:06 |
| N-Nitrosodi-n-propylamine | ND | | 21 | 10 | 07/13/2018 18:06 |
| Pentachlorophenol | ND | | 100 | 10 | 07/13/2018 18:06 |
| Phenanthrene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Phenol | ND | | 21 | 10 | 07/13/2018 18:06 |
| Pyrene | ND | | 21 | 10 | 07/13/2018 18:06 |
| Pyridine | ND | | 21 | 10 | 07/13/2018 18:06 |
| 1,2,4-Trichlorobenzene | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2,4,5-Trichlorophenol | ND | | 21 | 10 | 07/13/2018 18:06 |
| 2,4,6-Trichlorophenol | ND | | 21 | 10 | 07/13/2018 18:06 |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/13/18
Project: 338841

WorkOrder: 1807570
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|----------------------|--------------|--------|------------------|-----------------|------------------|
| MW-7 | 1807570-007C | Water | 07/12/2018 10:50 | GC21 07131817.D | 161373 |
| Analytes | Result | | RL | DF | Date Analyzed |
| Surrogates | REC (%) | | Limits | | |
| 2-Fluorophenol | 17 | | 8-130 | | 07/13/2018 18:06 |
| Phenol-d5 | 32 | | 5-130 | | 07/13/2018 18:06 |
| Nitrobenzene-d5 | 94 | | 20-140 | | 07/13/2018 18:06 |
| 2-Fluorobiphenyl | 95 | | 40-140 | | 07/13/2018 18:06 |
| 2,4,6-Tribromophenol | 43 | | 16-180 | | 07/13/2018 18:06 |
| 4-Terphenyl-d14 | 108 | | 40-170 | | 07/13/2018 18:06 |

Analyst(s): REB

Analytical Comments: a3,b1



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/12/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-1 | 1807570-001B | Water | 07/12/2018 14:06 | GC6B 07131885.D | 161429 |

| | | | | |
|-------------------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 07/14/2018 21:33 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 07/14/2018 21:33 |

| | | | |
|------------------------|----------------|--------------------------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
| C9 | 87 | 61-139 | 07/14/2018 21:33 |
| <u>Analyst(s):</u> JIS | | <u>Analytical Comments:</u> b1 | |

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-2 | 1807570-002B | Water | 07/12/2018 12:29 | GC6B 07181827.D | 161429 |

| | | | | |
|-------------------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 14,000 | 50 | 1 | 07/18/2018 19:05 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 07/18/2018 19:05 |

| | | | | |
|------------------------|----------------|-------------------|--|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | |
| C9 | 233 | S | 61-139 | 07/18/2018 19:05 |
| <u>Analyst(s):</u> JIS | | | <u>Analytical Comments:</u> e4,e8,e2,b6,b1 | |

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-3 | 1807570-003B | Water | 07/12/2018 13:41 | GC9a 07161862.D | 161429 |

| | | | | |
|-------------------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 07/17/2018 08:16 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 07/17/2018 08:16 |

| | | | |
|------------------------|----------------|--------------------------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
| C9 | 91 | 61-139 | 07/17/2018 08:16 |
| <u>Analyst(s):</u> JIS | | <u>Analytical Comments:</u> b1 | |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/12/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-4 | 1807570-004B | Water | 07/12/2018 14:20 | GC6B 07181821.D | 161429 |

| | | | | |
|-------------------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 1600 | 50 | 1 | 07/18/2018 17:07 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 07/18/2018 17:07 |

| | | | |
|--------------------|---|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
| C9 | 87 | 61-139 | 07/18/2018 17:07 |
| <u>Analyst(s):</u> | <u>Analytical Comments:</u> e4,e8,e2,b1 | | |

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-5 | 1807570-005B | Water | 07/12/2018 11:08 | GC6B 07181813.D | 161429 |

| | | | | |
|-------------------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 120 | 50 | 1 | 07/18/2018 14:31 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 07/18/2018 14:31 |

| | | | |
|--------------------|---|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
| C9 | 92 | 61-139 | 07/18/2018 14:31 |
| <u>Analyst(s):</u> | <u>Analytical Comments:</u> e4/e8,e2,b1 | | |

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|-----------------|----------|
| MW-6 | 1807570-006B | Water | 07/12/2018 12:21 | GC6B 07181823.D | 161429 |

| | | | | |
|-------------------------|---------------|-----------|-----------|----------------------|
| <u>Analytes</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 360 | 50 | 1 | 07/18/2018 17:47 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 07/18/2018 17:47 |

| | | | |
|--------------------|---|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | |
| C9 | 82 | 61-139 | 07/18/2018 17:47 |
| <u>Analyst(s):</u> | <u>Analytical Comments:</u> e4,e8,e2,b1 | | |

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 7/12/18 20:17
Date Prepared: 7/12/18
Project: 338841

WorkOrder: 1807570
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/ Silica Gel Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------|----------------|--------|-----------------------------|-----------------|----------------------|
| MW-7 | 1807570-007B | Water | 07/12/2018 10:50 | GC6B 07181825.D | 161429 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 590 | | 50 | 1 | 07/18/2018 18:25 |
| TPH-Motor Oil (C18-C36) | ND | | 250 | 1 | 07/18/2018 18:25 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| C9 | 82 | | 61-139 | | 07/18/2018 18:25 |
| <u>Analyst(s):</u> | JIS | | <u>Analytical Comments:</u> | e4,e8,e2,b1 | |



Quality Control Report

Client: AEI Consultants **WorkOrder:** 1807570
Date Prepared: 7/16/18 **BatchID:** 161566
Date Analyzed: 7/16/18 **Extraction Method:** SW5030B
Instrument: GC10 **Analytical Method:** SW8260B
Matrix: Water **Unit:** µg/L
Project: 338841 **Sample ID:** MB/LCS/LCSD-161566

QC Summary Report for SW8260B

| Analyte | MB Result | RL | SPK Val | MB SS %REC | MB SS Limits |
|-----------------------------|-----------|------|---------|------------|--------------|
| Benzene | ND | 0.50 | - | - | - |
| Ethylbenzene | ND | 0.50 | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | - | - | - |
| Toluene | ND | 0.50 | - | - | - |
| Xylenes, Total | ND | 0.50 | - | - | - |

Surrogate Recovery

| | | | | |
|----------------------|------|----|-----|--------|
| Dibromofluoromethane | 24.4 | 25 | 97 | 91-133 |
| Toluene-d8 | 28.9 | 25 | 116 | 87-127 |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|-----------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Benzene | 9.45 | 9.93 | 10 | 95 | 99 | 74-121 | 4.94 | 20 |
| Ethylbenzene | 9.99 | 10.2 | 10 | 100 | 102 | 71-125 | 1.97 | 20 |
| Methyl-t-butyl ether (MTBE) | 8.40 | 8.85 | 10 | 84 | 88 | 64-118 | 5.22 | 20 |
| Toluene | 8.85 | 9.30 | 10 | 89 | 93 | 67-124 | 4.99 | 20 |
| Xylenes, Total | 30.3 | 29.4 | 30 | 101 | 98 | 68-128 | 2.96 | 20 |

Surrogate Recovery

| | | | | | | | | |
|----------------------|------|------|----|-----|-----|--------|-------|----|
| Dibromofluoromethane | 25.5 | 25.4 | 25 | 102 | 101 | 91-133 | 0.467 | 20 |
| Toluene-d8 | 28.8 | 29.3 | 25 | 115 | 117 | 87-127 | 1.76 | 20 |



Quality Control Report

Client: AEI Consultants **WorkOrder:** 1807570
Date Prepared: 7/16/18 **BatchID:** 161566
Date Analyzed: 7/16/18 **Extraction Method:** SW5030B
Instrument: GC10 **Analytical Method:** SW8260B
Matrix: Water **Unit:** µg/L
Project: 338841 **Sample ID:** MB/LCS/LCSD-161566

QC Summary Report for SW8260B

| Analyte | MB Result | RL | SPK Val | MB SS %REC | MB SS Limits | | | |
|---------------------------|------------|-------------|---------|------------|--------------|-----------------|------|-----------|
| TPH(g) (C6-C12) | ND | 50 | - | - | - | | | |
| Surrogate Recovery | | | | | | | | |
| Dibromofluoromethane | 25.0 | | 25 | 100 | 70-130 | | | |
| <hr/> | | | | | | | | |
| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
| TPH(g) (C6-C12) | 212 | 207 | 200 | 106 | 103 | 70-130 | 2.32 | 20 |
| Surrogate Recovery | | | | | | | | |
| Dibromofluoromethane | 25.2 | 25.3 | 25 | 101 | 101 | 91-133 | 0 | 20 |



Quality Control Report

Client: AEI Consultants
Date Prepared: 7/12/18
Date Analyzed: 7/12/18
Instrument: GC17
Matrix: Water
Project: 338841

WorkOrder: 1807570
BatchID: 161373
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-161373

QC Summary Report for SW8270C

| Analyte | MB Result | RL | SPK Val | MB SS %REC | MB SS Limits |
|-------------------------------|-----------|-----|---------|------------|--------------|
| Acenaphthene | ND | 1.0 | - | - | - |
| Acenaphthylene | ND | 1.0 | - | - | - |
| Anthracene | ND | 1.0 | - | - | - |
| Benzidine | ND | 5.0 | - | - | - |
| Benzo (a) anthracene | ND | 1.0 | - | - | - |
| Benzo (a) pyrene | ND | 1.0 | - | - | - |
| Benzo (b) fluoranthene | ND | 1.0 | - | - | - |
| Benzo (g,h,i) perylene | ND | 1.0 | - | - | - |
| Benzo (k) fluoranthene | ND | 1.0 | - | - | - |
| Bis (2-chloroethoxy) Methane | ND | 1.0 | - | - | - |
| Bis (2-chloroethyl) Ether | ND | 1.0 | - | - | - |
| Bis (2-chloroisopropyl) Ether | ND | 1.0 | - | - | - |
| Bis (2-ethylhexyl) Adipate | ND | 1.0 | - | - | - |
| Bis (2-ethylhexyl) Phthalate | ND | 2.0 | - | - | - |
| 4-Bromophenyl Phenyl Ether | ND | 1.0 | - | - | - |
| Butylbenzyl Phthalate | ND | 1.0 | - | - | - |
| 4-Chloroaniline | ND | 2.0 | - | - | - |
| 4-Chloro-3-methylphenol | ND | 1.0 | - | - | - |
| 2-Chloronaphthalene | ND | 1.0 | - | - | - |
| 2-Chlorophenol | ND | 1.0 | - | - | - |
| 4-Chlorophenyl Phenyl Ether | ND | 1.0 | - | - | - |
| Chrysene | ND | 1.0 | - | - | - |
| Dibenzo (a,h) anthracene | ND | 1.0 | - | - | - |
| Dibenzofuran | ND | 1.0 | - | - | - |
| Di-n-butyl Phthalate | ND | 1.0 | - | - | - |
| 1,2-Dichlorobenzene | ND | 1.0 | - | - | - |
| 1,3-Dichlorobenzene | ND | 1.0 | - | - | - |
| 1,4-Dichlorobenzene | ND | 1.0 | - | - | - |
| 3,3-Dichlorobenzidine | ND | 2.0 | - | - | - |
| 2,4-Dichlorophenol | ND | 1.0 | - | - | - |
| Diethyl Phthalate | ND | 1.0 | - | - | - |
| 2,4-Dimethylphenol | ND | 1.0 | - | - | - |
| Dimethyl Phthalate | ND | 1.0 | - | - | - |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | - | - | - |
| 2,4-Dinitrophenol | ND | 5.0 | - | - | - |
| 2,4-Dinitrotoluene | ND | 1.0 | - | - | - |
| 2,6-Dinitrotoluene | ND | 1.0 | - | - | - |
| Di-n-octyl Phthalate | ND | 2.0 | - | - | - |

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

| | | | |
|----------------|-----------------|--------------------|--------------------|
| Client: | AEI Consultants | WorkOrder: | 1807570 |
| Date Prepared: | 7/12/18 | BatchID: | 161373 |
| Date Analyzed: | 7/12/18 | Extraction Method: | E625 |
| Instrument: | GC17 | Analytical Method: | SW8270C |
| Matrix: | Water | Unit: | µg/L |
| Project: | 338841 | Sample ID: | MB/LCS/LCSD-161373 |

QC Summary Report for SW8270C

| Analyte | MB Result | RL | SPK Val | MB SS %REC | MB SS Limits |
|---------------------------------|-----------|-----|---------|------------|--------------|
| 1,2-Diphenylhydrazine | ND | 1.0 | - | - | - |
| Fluoranthene | ND | 1.0 | - | - | - |
| Fluorene | ND | 1.0 | - | - | - |
| Hexachlorobenzene | ND | 1.0 | - | - | - |
| Hexachlorobutadiene | ND | 1.0 | - | - | - |
| Hexachlorocyclopentadiene | ND | 5.0 | - | - | - |
| Hexachloroethane | ND | 1.0 | - | - | - |
| Indeno (1,2,3-cd) pyrene | ND | 1.0 | - | - | - |
| Isophorone | ND | 1.0 | - | - | - |
| 2-Methylnaphthalene | ND | 1.0 | - | - | - |
| 2-Methylphenol (o-cresol) | ND | 1.0 | - | - | - |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 1.0 | - | - | - |
| Naphthalene | ND | 1.0 | - | - | - |
| 2-Nitroaniline | ND | 5.0 | - | - | - |
| 3-Nitroaniline | ND | 5.0 | - | - | - |
| 4-Nitroaniline | ND | 5.0 | - | - | - |
| Nitrobenzene | ND | 1.0 | - | - | - |
| 2-Nitrophenol | ND | 5.0 | - | - | - |
| 4-Nitrophenol | ND | 5.0 | - | - | - |
| N-Nitrosodimethylamine | ND | 5.0 | - | - | - |
| N-Nitrosodiphenylamine | ND | 1.0 | - | - | - |
| N-Nitrosodi-n-propylamine | ND | 1.0 | - | - | - |
| Pentachlorophenol | ND | 5.0 | - | - | - |
| Phenanthrene | ND | 1.0 | - | - | - |
| Phenol | ND | 1.0 | - | - | - |
| Pyrene | ND | 1.0 | - | - | - |
| 1,2,4-Trichlorobenzene | ND | 1.0 | - | - | - |
| 2,4,5-Trichlorophenol | ND | 1.0 | - | - | - |
| 2,4,6-Trichlorophenol | ND | 1.0 | - | - | - |

Surrogate Recovery

| | | | | |
|----------------------|------|----|-----|--------|
| 2-Fluorophenol | 19.6 | 20 | 98 | 29-140 |
| Phenol-d5 | 21.4 | 20 | 107 | 38-148 |
| Nitrobenzene-d5 | 18.6 | 20 | 93 | 31-152 |
| 2-Fluorobiphenyl | 17.2 | 20 | 86 | 40-140 |
| 2,4,6-Tribromophenol | 24.0 | 20 | 120 | 39-150 |
| Terphenyl-d14 | 17.5 | 20 | 88 | 38-147 |

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

Client: AEI Consultants
Date Prepared: 7/12/18
Date Analyzed: 7/12/18
Instrument: GC17
Matrix: Water
Project: 338841

WorkOrder: 1807570
BatchID: 161373
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS/LCSD-161373

QC Summary Report for SW8270C

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|-------------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| Acenaphthene | 9.63 | 8.98 | 10 | 96 | 90 | 47-145 | 6.91 | 20 |
| Acenaphthylene | 10.2 | 9.63 | 10 | 102 | 96 | 33-145 | 5.38 | 20 |
| Anthracene | 10.1 | 9.41 | 10 | 101 | 94 | 27-133 | 6.86 | 20 |
| Benzidine | 50.6 | 48.4 | 50 | 101 | 97 | 43-106 | 4.56 | 20 |
| Benzo (a) anthracene | 9.30 | 8.68 | 10 | 93 | 87 | 33-143 | 6.91 | 20 |
| Benzo (a) pyrene | 12.2 | 11.3 | 10 | 123 | 113 | 17-163 | 8.16 | 20 |
| Benzo (b) fluoranthene | 11.5 | 10.9 | 10 | 115 | 109 | 24-159 | 5.27 | 20 |
| Benzo (g,h,i) perylene | 11.1 | 10.3 | 10 | 111 | 103 | 1-219 | 7.04 | 20 |
| Benzo (k) fluoranthene | 10.6 | 9.53 | 10 | 106 | 95 | 11-162 | 10.3 | 20 |
| Bis (2-chloroethoxy) Methane | 10.1 | 9.61 | 10 | 101 | 96 | 33-184 | 5.05 | 20 |
| Bis (2-chloroethyl) Ether | 10.3 | 9.73 | 10 | 103 | 97 | 12-158 | 5.44 | 20 |
| Bis (2-chloroisopropyl) Ether | 9.12 | 8.87 | 10 | 91 | 89 | 36-166 | 2.77 | 20 |
| Bis (2-ethylhexyl) Adipate | 9.70 | 8.82 | 10 | 97 | 88 | 55-122 | 9.52 | 20 |
| Bis (2-ethylhexyl) Phthalate | 9.88 | 9.07 | 10 | 99 | 91 | 8-158 | 8.60 | 20 |
| 4-Bromophenyl Phenyl Ether | 9.72 | 9.06 | 10 | 97 | 91 | 53-127 | 7.03 | 20 |
| Butylbenzyl Phthalate | 10.5 | 9.63 | 10 | 105 | 96 | 1-152 | 9.01 | 20 |
| 4-Chloroaniline | 11.9 | 11.4 | 10 | 119 | 114 | 63-120 | 4.89 | 20 |
| 4-Chloro-3-methylphenol | 11.5 | 10.8 | 10 | 115 | 108 | 22-147 | 6.47 | 20 |
| 2-Chloronaphthalene | 9.80 | 9.37 | 10 | 98 | 94 | 60-118 | 4.44 | 20 |
| 2-Chlorophenol | 10.6 | 10.3 | 10 | 106 | 103 | 23-134 | 3.03 | 20 |
| 4-Chlorophenyl Phenyl Ether | 10.0 | 9.35 | 10 | 100 | 94 | 25-158 | 7.17 | 20 |
| Chrysene | 9.64 | 8.84 | 10 | 96 | 88 | 17-168 | 8.63 | 20 |
| Dibenzo (a,h) anthracene | 11.4 | 10.6 | 10 | 114 | 106 | 1-227 | 7.17 | 20 |
| Dibenzofuran | 9.85 | 9.29 | 10 | 99 | 93 | 64-122 | 5.89 | 20 |
| Di-n-butyl Phthalate | 11.9 | 11.0 | 10 | 119, F2 | 110 | 1-118 | 7.68 | 20 |
| 1,2-Dichlorobenzene | 8.99 | 8.84 | 10 | 90 | 88 | 32-129 | 1.75 | 20 |
| 1,3-Dichlorobenzene | 8.93 | 8.73 | 10 | 89 | 87 | 1-172 | 2.24 | 20 |
| 1,4-Dichlorobenzene | 8.70 | 8.57 | 10 | 87 | 86 | 20-124 | 1.47 | 20 |
| 3,3-Dichlorobenzidine | 11.0 | 10.2 | 10 | 110 | 102 | 1-262 | 6.76 | 20 |
| 2,4-Dichlorophenol | 10.2 | 9.76 | 10 | 102 | 98 | 39-135 | 4.09 | 20 |
| Diethyl Phthalate | 11.1 | 10.4 | 10 | 111 | 104 | 1-114 | 6.82 | 20 |
| 2,4-Dimethylphenol | 10.4 | 10.1 | 10 | 104 | 101 | 32-119 | 3.12 | 20 |
| Dimethyl Phthalate | 10.7 | 9.96 | 10 | 107 | 100 | 1-112 | 7.42 | 20 |
| 4,6-Dinitro-2-methylphenol | 50.9 | 47.6 | 50 | 102 | 95 | 59-123 | 6.67 | 20 |
| 2,4-Dinitrophenol | 50.3 | 47.5 | 50 | 101 | 95 | 1-191 | 5.69 | 20 |
| 2,4-Dinitrotoluene | 11.0 | 10.3 | 10 | 110 | 103 | 39-139 | 6.68 | 20 |
| 2,6-Dinitrotoluene | 10.6 | 9.94 | 10 | 106 | 99 | 50-158 | 6.29 | 20 |
| Di-n-octyl Phthalate | 11.0 | 10.1 | 10 | 110 | 101 | 4-146 | 9.25 | 20 |

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP



Quality Control Report

| | | | |
|-----------------------|-----------------|---------------------------|--------------------|
| Client: | AEI Consultants | WorkOrder: | 1807570 |
| Date Prepared: | 7/12/18 | BatchID: | 161373 |
| Date Analyzed: | 7/12/18 | Extraction Method: | E625 |
| Instrument: | GC17 | Analytical Method: | SW8270C |
| Matrix: | Water | Unit: | µg/L |
| Project: | 338841 | Sample ID: | MB/LCS/LCSD-161373 |

QC Summary Report for SW8270C

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---------------------------------|------------|-------------|---------|----------|-----------|-----------------|-------|-----------|
| 1,2-Diphenylhydrazine | 9.27 | 8.54 | 10 | 93 | 85 | 66-128 | 8.23 | 20 |
| Fluoranthene | 10.9 | 10.2 | 10 | 109 | 101 | 26-137 | 6.93 | 20 |
| Fluorene | 10.8 | 9.96 | 10 | 108 | 100 | 59-121 | 7.99 | 20 |
| Hexachlorobenzene | 9.05 | 8.32 | 10 | 90 | 83 | 1-152 | 8.42 | 20 |
| Hexachlorobutadiene | 8.82 | 8.55 | 10 | 88 | 85 | 24-116 | 3.15 | 20 |
| Hexachlorocyclopentadiene | 33.9 | 34.3 | 50 | 68 | 69 | 36-109 | 1.21 | 20 |
| Hexachloroethane | 8.61 | 8.46 | 10 | 86 | 85 | 40-113 | 1.84 | 20 |
| Indeno (1,2,3-cd) pyrene | 11.5 | 10.7 | 10 | 115 | 107 | 1-171 | 7.03 | 20 |
| Isophorone | 10.5 | 9.92 | 10 | 105 | 99 | 21-196 | 5.30 | 20 |
| 2-Methylnaphthalene | 11.1 | 10.6 | 10 | 111 | 106 | 58-122 | 4.81 | 20 |
| 2-Methylphenol (o-cresol) | 11.7 | 11.2 | 10 | 117 | 112 | 55-121 | 4.42 | 20 |
| 3 & 4-Methylphenol (m,p-Cresol) | 11.3 | 10.9 | 10 | 113 | 109 | 58-121 | 4.15 | 20 |
| Naphthalene | 9.36 | 9.02 | 10 | 94 | 90 | 21-133 | 3.73 | 20 |
| 2-Nitroaniline | 53.8 | 49.9 | 50 | 108 | 100 | 65-124 | 7.52 | 20 |
| 3-Nitroaniline | 58.6 | 54.4 | 50 | 117 | 109 | 67-125 | 7.44 | 20 |
| 4-Nitroaniline | 60.4 | 56.7 | 50 | 121 | 113 | 65-124 | 6.30 | 20 |
| Nitrobenzene | 9.62 | 9.23 | 10 | 96 | 92 | 35-180 | 4.15 | 20 |
| 2-Nitrophenol | 52.4 | 49.6 | 50 | 105 | 99 | 29-182 | 5.59 | 20 |
| 4-Nitrophenol | 57.6 | 52.9 | 50 | 115 | 106 | 1-132 | 8.45 | 20 |
| N-Nitrosodiphenylamine | 9.66 | 8.87 | 10 | 97 | 89 | 67-132 | 8.50 | 20 |
| N-Nitrosodi-n-propylamine | 11.4 | 10.9 | 10 | 114 | 109 | 1-230 | 4.83 | 20 |
| Pentachlorophenol | 24.5 | 22.6 | 20 | 123 | 113 | 14-176 | 7.89 | 20 |
| Phenanthrene | 9.27 | 8.66 | 10 | 93 | 87 | 54-120 | 6.84 | 20 |
| Phenol | 10.8 | 10.4 | 10 | 108 | 104 | 5-112 | 3.73 | 20 |
| Pyrene | 9.19 | 8.41 | 10 | 92 | 84 | 52-115 | 8.91 | 20 |
| 1,2,4-Trichlorobenzene | 9.01 | 8.94 | 10 | 90 | 89 | 44-142 | 0.750 | 20 |
| 2,4,5-Trichlorophenol | 10.2 | 9.64 | 10 | 102 | 96 | 62-124 | 5.33 | 20 |
| 2,4,6-Trichlorophenol | 9.86 | 9.38 | 10 | 99 | 94 | 37-144 | 5.02 | 20 |
| Surrogate Recovery | | | | | | | | |
| 2-Fluorophenol | 19.0 | 19.4 | 20 | 95 | 97 | 29-140 | 2.03 | 20 |
| Phenol-d5 | 21.3 | 21.6 | 20 | 107 | 108 | 38-148 | 1.54 | 20 |
| Nitrobenzene-d5 | 20.0 | 20.4 | 20 | 100 | 102 | 31-152 | 1.68 | 20 |
| 2-Fluorobiphenyl | 18.4 | 18.7 | 20 | 92 | 94 | 40-140 | 1.59 | 20 |
| 2,4,6-Tribromophenol | 22.2 | 21.7 | 20 | 111 | 108 | 39-150 | 2.52 | 20 |
| Terphenyl-d14 | 19.7 | 18.9 | 20 | 98 | 94 | 38-147 | 4.14 | 20 |



Quality Control Report

Client: AEI Consultants **WorkOrder:** 1807570
Date Prepared: 7/12/18 **BatchID:** 161429
Date Analyzed: 7/14/18 - 7/16/18 **Extraction Method:** SW3510C/3630C
Instrument: GC6A **Analytical Method:** SW8015B
Matrix: Water **Unit:** µg/L
Project: 338841 **Sample ID:** MB/LCS/LCSD-161429

QC Report for SW8015B w/ Silica Gel Clean-Up

| Analyte | MB Result | RL | SPK Val | MB SS %REC | MB SS Limits |
|-------------------------|-----------|-----|---------|------------|--------------|
| TPH-Diesel (C10-C23) | ND | 50 | - | - | - |
| TPH-Motor Oil (C18-C36) | ND | 250 | - | - | - |

Surrogate Recovery

| | | | | |
|----|-----|-----|----|--------|
| C9 | 598 | 625 | 96 | 68-127 |
|----|-----|-----|----|--------|

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH-Diesel (C10-C23) | 1370 | 1270 | 1000 | 137 | 127 | 86-142 | 7.22 | 30 |
| Surrogate Recovery | | | | | | | | |
| C9 | 557 | 506 | 625 | 89 | 81 | 68-127 | 9.60 | 30 |

McC Campbell Analytical, Inc.

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

WaterTrax WriteOn EDF

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1807570

ClientCode: AEL

Excel EQuIS Email HardCopy ThirdParty J-flag
 Detection Summary Dry-Weight

Report to:

Wayne Hung
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 478-9698 FAX: (925) 944-2895

Email: whung@aeiconsultants.com
cc/3rd Party: akittredge@aeiconsultants.com;
PO: 166990
Project: 338841

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

Requested TAT: 5 days;

Date Received: 07/12/2018

Date Logged: 07/12/2018

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1807570-001 | MW-1 | Water | 7/12/2018 14:06 | <input type="checkbox"/> | A | A | C | A | B | | | | | | | |
| 1807570-002 | MW-2 | Water | 7/12/2018 12:29 | <input type="checkbox"/> | A | A | C | | B | | | | | | | |
| 1807570-003 | MW-3 | Water | 7/12/2018 13:41 | <input type="checkbox"/> | A | A | C | | B | | | | | | | |
| 1807570-004 | MW-4 | Water | 7/12/2018 14:20 | <input type="checkbox"/> | A | A | C | | B | | | | | | | |
| 1807570-005 | MW-5 | Water | 7/12/2018 11:08 | <input type="checkbox"/> | A | A | C | | B | | | | | | | |
| 1807570-006 | MW-6 | Water | 7/12/2018 12:21 | <input type="checkbox"/> | A | A | C | | B | | | | | | | |
| 1807570-007 | MW-7 | Water | 7/12/2018 10:50 | <input type="checkbox"/> | A | A | C | | B | | | | | | | |

Test Legend:

| | | | | | | | |
|---|---------------|----|-----------|----|--------|----|--------------|
| 1 | 8260B_BTEX_W | 2 | 8260GAS_W | 3 | 8270_W | 4 | PREDF REPORT |
| 5 | TPH(DMO)WSG_W | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

Prepared by: Kena Ponce

The following SampleIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup GBTEX8260_W.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported 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: 338841

Work Order: 1807570

Client Contact: Wayne Hung

QC Level: LEVEL 2

Contact's Email: whung@aeiconsultants.com

Comments:

Date Logged: 7/12/2018

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1807570-001A | MW-1 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 14:06 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-001B | MW-1 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 14:06 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-001C | MW-1 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 14:06 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-002A | MW-2 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 12:29 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-002B | MW-2 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 12:29 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-002C | MW-2 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 12:29 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-003A | MW-3 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 13:41 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-003B | MW-3 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 13:41 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-003C | MW-3 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 13:41 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-004A | MW-4 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 14:20 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-004B | MW-4 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 14:20 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-004C | MW-4 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 14:20 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-005A | MW-5 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 11:08 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-005B | MW-5 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 11:08 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-005C | MW-5 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 11:08 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-006A | MW-6 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 12:21 | 5 days | 1%+ | <input type="checkbox"/> | |

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).

- 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.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

Project: 338841

Work Order: 1807570

Client Contact: Wayne Hung

QC Level: LEVEL 2

Contact's Email: whung@aeiconsultants.com

Comments:

Date Logged: 7/12/2018

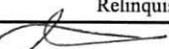
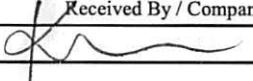
WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1807570-006B | MW-6 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 12:21 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-006C | MW-6 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 12:21 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-007A | MW-7 | Water | TPH(g) & BTEX by 8260B | 4 | VOA w/ HCl | <input type="checkbox"/> | 7/12/2018 10:50 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-007B | MW-7 | Water | SW8015B (TPH-d,mo w/ S.G. Clean-Up) | 2 | aVOA, Unpres | <input type="checkbox"/> | 7/12/2018 10:50 | 5 days | 1%+ | <input type="checkbox"/> | |
| 1807570-007C | MW-7 | Water | SW8270C (SVOCs) | 1 | 1LA, Unpres | <input type="checkbox"/> | 7/12/2018 10:50 | 5 days | 1%+ | <input type="checkbox"/> | |

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).

- 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.

1807870

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|---|-------|-------------|---|---|---|---------|------|-------------------------------------|------------------------|------------|--|------------|--|---|---|---|-----|------------------|--|--|--|---|--|--|--|--|--|-----|--|---|--|---|--|--|--|--|--|--------------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------------------------|--|--|--|--|--|--|--|--------------------------------------|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--------------------------------|--|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  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 | | CHAIN OF CUSTODY RECORD <table border="1"> <tr> <td colspan="2">Turn Around Time: 1 Day Rush</td> <td colspan="2">2 Day Rush</td> <td colspan="2">3 Day Rush</td> <td>STD <input checked="" type="checkbox"/></td> <td>Quote # <input checked="" type="checkbox"/></td> </tr> <tr> <td>J-Flag / MDL</td> <td>ESL</td> <td colspan="4">Cleanup Approved</td> <td colspan="2">Bottle Order # <input type="checkbox"/></td> </tr> <tr> <td colspan="2">Delivery Format: PDF</td> <td colspan="2">GeoTracker EDF <input checked="" type="checkbox"/></td> <td colspan="2">EDD</td> <td colspan="2">Write On (DW) <input checked="" type="checkbox"/></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2">EQuIS <input type="checkbox"/></td> </tr> </table> | | | | | | | | Turn Around Time: 1 Day Rush | | 2 Day Rush | | 3 Day Rush | | STD <input checked="" type="checkbox"/> | Quote # <input checked="" type="checkbox"/> | J-Flag / MDL | ESL | Cleanup Approved | | | | Bottle Order # <input type="checkbox"/> | | Delivery Format: PDF | | GeoTracker EDF <input checked="" type="checkbox"/> | | EDD | | Write On (DW) <input checked="" type="checkbox"/> | | | | | | | | EQuIS <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turn Around Time: 1 Day Rush | | 2 Day Rush | | 3 Day Rush | | STD <input checked="" type="checkbox"/> | Quote # <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J-Flag / MDL | ESL | Cleanup Approved | | | | Bottle Order # <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delivery Format: PDF | | GeoTracker EDF <input checked="" type="checkbox"/> | | EDD | | Write On (DW) <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | EQuIS <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Report To: Wayne Hung, Ariel Kittridge Bill To: AEI Consultants Company: AEI Consultants Email: whung@aeiconsultants.com Alt Email: akittredge@aeiconsultants.com Project Name: Project #: 338841 Project Location: 3635 13th Avenue, Oakland CA PO # 166990 Sampler Signature:  | | Analysis Requested <table border="1"> <tr> <td>BTEX & TPH as Gas (8021/ 8015) MTBE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TPH as Diesel (8015) + Motor Oil Without Silica Gel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TPH as Diesel (8015) + Motor Oil With Silica Gel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Oil & Grease (1664 / 9071) Without Silica Gel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Petroleum Hydrocarbons (418.1) With Silica Gel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EPA 505 / 608 / 8081 (CI Pesticides)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EPA 608 / 8082 PCB's ; Aroclors only</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EPA 524.2 / 624 / 8260 (VOCs)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EPA 525.2 / 625 / 8270 (SVOCs)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>EPA 8270 SIM / 8310 (PAHs / PNAs)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CAM 17 Metals (200.8 / 6020)*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Metals (200.8 / 6020)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Baylands Requirements</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Lab to filter sample for dissolved metals analysis</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | | | | | | 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 | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE ID Location / Field Point | | Sampling Date Time | | #Containers | Matrix | Preservative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | | 7/12/18 | 14:06 | 7 | Water | HCl / NP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-2 | | | 12:29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-3 | | | 13:41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-4 | | | 14:20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-5 | | | 11:08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-6 | | | 12:21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-7 | | | 10:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | | | | | | | | | | Comments / Instructions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By / Company Name  | | | Date | Time | Received By / Company Name  | | | Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7/12/18 10:17 | | | | | | | | 7/12/18 | 2017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=ZnOAc/NaOH 7=None | | | | | | | | | | Temp <u>5.8</u> °C | Initials <u> </u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Sample Receipt Checklist

Client Name: **AEI Consultants**
Project: **338841**

Date and Time Received **7/12/2018 20:17**
Date Logged: **7/12/2018**

WorkOrder No: **1807570** Matrix: Water
Carrier: Client Drop-In

Received by: **Kena Ponce**
Logged by: **Kena Ponce**

Chain of Custody (COC) Information

| | | | |
|---|---|-----------------------------|--|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| COC agrees with Quote? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Sample Receipt Information

| | | | |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

| | | | |
|---|---|-----------------------------|-----------------------------|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| Samples Received on Ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

(Ice Type: WET ICE)

| | | |
|---|---|-----------------------------|
| Sample/Temp Blank temperature | Temp: 5.8°C | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

UCMR Samples:

pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4;
530: ≤7; 541: <3; 544: <6.5 & 7.5)? Yes No NA

Free Chlorine tested and acceptable upon receipt (<0.1mg/L)? Yes No NA

Comments: