# MONITORING WELL INSTALLATION AND SAMPLING REPORT

## ENDOLYNE GARDEN APARTMENTS
## 9212 45th AVENUE SOUTHWEST
## SEATTLE, WASHINGTON

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**For:**
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| | |
|---|---|
| 1989 UST Closure Report | Letter regarding Closure Report, Underground Storage Tanks, 14-Unit Apartment Building, 9212 45th Avenue, Seattle, Washington dated December 5, 1989, from Marc McGinnis and Don Spencer, Geotech Consultants, Inc. to Leon Cohen of Fauntleroy Associates |
| 1989 UST Removal Report | Letter regarding Removal of Underground Storage Tanks, 14-Unit Apartment Building, 9212 45th Avenue S.W., Permit No. 645073, Seattle, Washington dated September 5, 1989, from Marc McGinnis, Geotech Consultants, Inc. to Faith Lumsden, City of Seattle Department of Construction and Land Use |
| 2013 Phase I ESA | *Phase I Environmental Site Assessment Report, Endolyne Garden, 9212 and 9214 45th Avenue Southwest, King County Parcel No. 234670-0000, Seattle, King County, Washington* dated December 9, 2013, prepared by Terracon Consultants, Inc. for Intervest |
| 2015 Limited Subsurface Investigation Report | Letter regarding Limited Subsurface Investigation—Summary of Results, Endolyne Garden Apartments, 9212 45th Avenue Southwest, Seattle, Washington dated May 1, 2015, from Thaddeus Cline and Clifford Schmitt of Farallon to Maureen Sanchez of Ecology VCP |
| 2016 Limited Subsurface Investigation Report | Letter regarding Limited Subsurface Investigation—Summary of Results, Endolyne Garden Apartments, 9212 45th Avenue Southwest, Seattle, Washington dated June 6, 2016, from Eric Buer and Thaddeus Cline of Farallon to Endolyne Apartments, LLC c/o Steve Lazoff, Plus One Capital, LLC |
| bgs | below ground surface |
| BTEX | benezene, toluene, ethylbenzene, and xylenes |
| COCs | constituents of concern |
| DRO | total petroleum hydrocarbons as diesel-range organics |
| Ecology | Washington State Department of Ecology |
| EPA | U.S. Environmental Protection Agency |
| Farallon | Farallon Consulting, L.L.C. |
| GRO | total petroleum hydrocarbons as gasoline-range organics |
| µg/l | micrograms per liter |
| mg/kg | milligrams per kilogram |
| MTCA | Washington State Model Toxics Control Act Cleanup Regulation |
| ORO | total petroleum hydrocarbons as oil-range organics |
| Site | the property at 9212 45th Avenue Southwest in Seattle, Washington |
| TPH | total petroleum hydrocarbons |
| UST | Underground storage tank |

# 1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this report on behalf of Endolyne Apartments, LLC (Endolyne) for the property at 9212 45th Avenue Southwest in Seattle, Washington (herein referred to as the Site) (Figure 1). This report summarizes the results of monitoring well installation and sampling activities conducted at the Site in August 2016 through April 2018. The monitoring well installation and sampling activities included advancement of four borings for collection of soil samples, completion of the four borings as monitoring wells, and groundwater monitoring and sampling of the four groundwater monitoring wells.

## 1.1 PURPOSE

The purpose of the work summarized herein was to further investigate soil and groundwater conditions at the Site following limited subsurface investigation activities conducted by Farallon in 2015 and 2016, which identified constituents of concern (COC) at concentrations exceeding Washington State Model Toxics Control Act Cleanup Regulation (MTCA) cleanup levels in soil and reconnaissance groundwater samples collected at the Site. Details of the 2015 and 2016 limited subsurface investigation activities are provided in letter reports referenced in Section 2.3, Previous Environmental Investigations.

## 1.2 ORGANIZATION

This report has been organized into the following sections:

- **Section 2**, **Background**, provides a description of the Site and its history, and a summary of previous environmental investigations.
- **Section 3**, **Monitoring Well Installation and Sampling Field Activities**, provides a description of the monitoring well installation and sampling activities conducted at the Site in August 2016 through April 2018.
- **Section 4**, **Monitoring Well Installation and Sampling Results**, presents the analytical results of soil and groundwater sampling conducted at the Site in August 2016 through April 2018.

- **Section 5**, **Conclusions**, presents a summary of Farallon's conclusions regarding the monitoring well installation and sampling activities conducted at the Site in August 2016 through April 2018.
- **Section 6**, **References**, presents a list of documents cited in this report.
- **Section 7**, **Limitations**, presents Farallon's standard limitations for this report.

# 2.0 BACKGROUND

This section provides a description of the Site and its history, and a summary of previous environmental investigations. The geographical location of the Site is depicted on Figure 1 and Site features are depicted on Figure 2.

## 2.1 SITE DESCRIPTION

The Site consists of King County Parcel No. 234670-0000, located at 9212 45th Avenue Southwest in Seattle, King County, Washington. Latitude and longitude coordinates for the approximate center of the 0.22-acre Site are 47º 31.262' north and 122º 23.399' west. The Site lies in Section 35 of Township 24 North, Range 3 East. City of Seattle land-use zoning for the Site is NC1-30, which is neighborhood commercial for small shopping and convenience retail services for residential neighborhoods. The Site is identified in the Washington State Department of Ecology (Ecology) Integrated Site Information System as "45th Ave SW Apartments" and "Endolyne Garden Apartments," and is listed under the following Ecology identification numbers: VCP No. NW2809, Cleanup Site No. 10264, and Facility No. 71883959. Site features are depicted on Figure 2. The Site is currently occupied by Endolyne Garden Apartments and Wildwood Market, a grocery market and restaurant.

## 2.2 SITE HISTORICAL USE

According to the letter regarding Limited Subsurface Investigation – Summary of Results, Endolyne Garden Apartments, 9212 45th Avenue Southwest, Seattle, Washington dated May 1, 2015, prepared for the Site by Farallon (2015) (2015 Limited Subsurface Investigation Report), a gas station and automotive repair shop reportedly operated at the Site from prior to 1940 until 1989, when the Site was redeveloped with the current apartment building and restaurant. During redevelopment activities in the late 1980s, six underground storage tanks (USTs) formerly used to store oil and gasoline were decommissioned by removal, as discussed in more detail below.

## 2.3 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Results from work previously conducted at the Site by Farallon and others are summarized in the following documents:

- Letter regarding Removal of Underground Storage Tanks, 14-Unit Apartment Building, 9212 45th Avenue S.W., Permit No. 645073, Seattle, Washington dated September 5, 1989, from Marc McGinnis of Geotech Consultants, Inc. (1989a) to Faith Lumsden of City of Seattle Department of Construction and Land Use (1989 UST Removal Report);
- Letter regarding Closure Report, Underground Storage Tanks, 14-Unit Apartment Building, 9212 45th Avenue, Seattle, Washington dated December 5, 1989, from Marc McGinnis and Don Spencer of Geotech Consultants, Inc. (1989b) to Fauntleroy Associates (1989 UST Closure Report);
- *Phase I Environmental Site Assessment, Endolyne Garden, 9212 and 9214 45th Avenue Southwest, King County Parcel No. 234670-0000, Seattle, King County, Washington* dated December 9, 2013, prepared by Terracon Consultants, Inc. (2013) for Intervest (2013 Phase I ESA);
- Letter regarding Limited Subsurface Investigation—Summary of Results, Endolyne Garden Apartments, 9212 45th Avenue Southwest, Seattle, Washington dated June 6, 2016, from Eric Buer and Thaddeus Cline of Farallon (2016) to Endolyne Apartments, LLC c/o Steve Lazoff, Plus One Capital, LLC (2016 Limited Subsurface Investigation Report).

### 2.3.1 UST Closure and Sampling – 1989

According to the 1989 UST Closure Report, six USTs were removed from the Site in 1989, as summarized in the table below. The approximate locations of the former USTs are shown on Figure 2.

| Former Underground Storage Tanks | | | | |
|---|---|---|---|---|
| **Identification** | **Previous Contents** | **Date of Removal** | **Estimated Capacity (gallons)** | **Estimated Bottom Depth (feet)** |
| UST 1 | Heating Oil | 7/17/1989 | 150 | 6 |
| UST 2 | Heating Oil | 7/17/1989 | 330 | 6 |
| UST 3 | Gasoline | 7/19/1989 | 5,000 | 12 |
| UST 4 | Gasoline | 7/19/1989 | 5,000 | 12 |
| UST 5 | Gasoline | 8/18/1989 | 1,000 | 8 |
| UST 6 | Gasoline | 8/18/1989 | 1,000 | 8 |

According to the 1989 UST Removal Report, following removal of the two former oil USTs in the central portion of the Site, UST 1 and UST 2, soil samples were collected from the bottom and one sidewall of each excavation for laboratory analysis of total petroleum hydrocarbons (TPH). TPH was detected in soil samples collected from the excavations at concentrations ranging from 94 to 1,150 milligrams per kilogram (mg/kg), which do not exceed the current MTCA Method A cleanup level for TPH as oil-range organics (ORO) in soil of 2,000 mg/kg. At the time of the 1989 UST Removal Report, the applicable cleanup level for TPH in soil was 200 mg/kg. ORO was detected at a concentration of 1,150 mg/kg in the soil sample collected from the bottom of the westernmost former oil UST removed from the central portion of the Site, which exceeded the former cleanup level of 200 mg/kg. Based on the exceedance, approximately 5 cubic yards of petroleum-impacted soil was removed from the westernmost former oil UST excavation area. Following removal of petroleum-impacted soil, a soil sample was collected from the bottom of the excavation for laboratory analysis of TPH. TPH was not detected at a concentration exceeding the laboratory practical quantitation limit of 5 mg/kg in the soil sample collected from the bottom of the excavation following removal of impacted soil.

According to the 1989 UST Removal Report, following removal of the two former gasoline USTs, UST 3 and UST 4, from the western portion of the Site, soil samples were collected from soil between the two former USTs, from the eastern sidewall of the excavation, and from stockpiled soil for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX). BTEX constituents were not detected at concentrations exceeding cleanup levels in effect at the time of the 1989 UST Removal Report or the current MTCA Method A cleanup levels in the soil samples collected from between the two former USTs, from the eastern sidewall of the excavation, or from stockpiled soil.

According to the 1989 UST Removal Report, following removal of the two former gasoline USTs, UST 5 and UST 6, from the southern portion of the Site, one soil sample was collected from beneath each former UST for laboratory analysis of BTEX. BTEX constituents were not detected at concentrations exceeding cleanup levels in effect at the time of the 1989 UST Removal Report or the current MTCA Method A cleanup levels in the soil samples collected from beneath the former gasoline USTs 5 and 6 in the southern portion of the Site.

According to the 1989 UST Closure Report, the analytical data from soil samples collected following removal of the former USTs at the Site suggests that concentrations of TPH and BTEX did not exceed applicable cleanup levels in soil in the vicinity of the former USTs following removal activities. Although analytical results presented in the 1989 UST Removal Report and the 1989 UST Closure Report indicate that TPH and BTEX were not detected at concentrations exceeding MTCA Method A cleanup levels in confirmation soil samples collected following UST removal activities conducted in 1989, the site assessment activities were not consistent with the current guidelines provided in Ecology's *Guidance for Site Checks and Site Assessment for Underground Storage Tanks* dated February 1991 and revised April 2003. The 2013 Phase I ESA identified the potential release of hazardous substances to the Site from former UST operations as a recognized environmental condition in connection with the Site based on the UST site assessment activities conducted in 1989 not being in conformance with Ecology's current guidance.

### 2.3.2 Limited Subsurface Investigation – 2015

Farallon conducted a limited subsurface investigation at the Site in January 2015 to investigate soil and groundwater conditions at the Site on behalf of Endolyne Apartments, LLC as documented in the 2015 Limited Subsurface Investigation Report. The limited subsurface investigation included advancement of nine direct-push borings for collection of soil and reconnaissance groundwater samples and advancement of two hand-auger borings that the drilling rig could not access. The approximate location of borings B1 through B11 are shown on Figure 2.

Soil samples were collected from the 11 borings advanced at the Site in 2015 at depths between 2.5 and 15.5 feet bgs. Soil samples were analyzed for a range of constituents that could be present from former UST operations. According to soil analytical results presented in the 2015 Limited Subsurface Investigation Report, TPH as gasoline-range organics (GRO) was detected at a concentration of 63 mg/kg, which exceeds the MTCA Method A cleanup level of 30 mg/kg when benzene is present, in the soil sample collected from boring B3 at a depth of 11.5 feet bgs. Boring B3 was advanced proximate to former USTs 3 and 4 in the western portion of the Site. GRO was not detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected from boring B3 at a depth of 15.5 feet bgs. No other analytes were detected at concentrations exceeding MTCA Method A cleanup levels in any of the other 19 soil samples collected from the 11 borings advanced at the Site in January 2015.

Groundwater was encountered at the Site at depths ranging from approximately 6 to 12 feet bgs during the 2015 limited subsurface investigation. Reconnaissance groundwater samples were collected from borings B2, B3, B4, and B6. GRO was detected at concentrations exceeding the MTCA Method A cleanup level of 800 µg/l in reconnaissance groundwater samples collected from borings B3 and B4. GRO was detected at a concentration of 15,000 micrograms per liter (µg/l) in the reconnaissance groundwater sample collected from boring B3 and at a concentration of 1,900 µg/l in the reconnaissance groundwater sample collected from boring B4. Benzene was detected at concentrations exceeding the MTCA Method A cleanup level of 5 µg/l in the reconnaissance groundwater samples collected from borings B3 and B4. Benzene was detected at a concentration of 18 µg/l in the reconnaissance groundwater sample collected from boring B3 and at a

concentration of 5.9 µg/l in the reconnaissance groundwater sample collected from boring B4. Total lead was detected at a concentration of 1,300 µg/l in the reconnaissance groundwater sample collected from boring B4, which exceeds the MTCA Method A cleanup level of 15 µg/l. There was insufficient reconnaissance groundwater sample volume collected from boring B4 to analyze for dissolved lead to enable evaluation of whether the measured total lead concentration was attributable to dissolved lead or to suspended soil in the sample.

### 2.3.3 Additional Limited Subsurface Investigation - 2016

An additional subsurface investigation was conducted at the Site by Farallon in March 2016 and is documented in the 2016 Limited Subsurface Investigation Report. The March 2016 subsurface investigation included installation of groundwater monitoring wells FMW-1, FMW-2, and FMW-3. The monitoring well locations are shown on Figure 2. FMW-1 was installed northeast-adjacent to the former location of USTs 3 and 4. FMW-2 was installed in the northern portion of the Site in the presumed down-gradient groundwater flow direction from the former USTs. FMW-3 was installed north-adjacent to the former location of USTs 1 and 2.

Two soil samples were collected from the boring for installation of monitoring well FMW-1 at depths of 4.5 and 8.5 feet bgs for analysis of GRO and BTEX. GRO and BTEX were not detected at concentrations exceeding MTCA Method A cleanup levels in the boring for installation of monitoring well FMW-1, suggesting that the GRO impact previously identified in soil in boring B3 was restricted to the western portion of the Site. Two soil samples were also collected from the borings for installation of monitoring wells FMW-2 and FMW-3 for analysis of TPH as diesel-range organics (DRO), ORO, GRO, and BTEX, none of which were detected at concentrations exceeding MTCA Method A cleanup levels.

Groundwater samples were collected from monitoring wells FMW-1 through FMW-3 in March 2016 for laboratory analysis of DRO, ORO, GRO, BTEX, 1,2-dibromoethane, 1,2-dichloroethane, methyl tertiary butyl ether, naphthalene, carcinogenic polycyclic aromatic hydrocarbons, halogenated volatile organic compounds, total lead, and dissolved lead. No analytes were detected at concentrations exceeding MTCA Method A cleanup levels in any of the groundwater samples

collected from monitoring wells FMW-1 through FMW-3 in March 2016 with the exception of total lead. Total lead was detected at a concentration of 23 µg/l in the groundwater sample collected from monitoring well FMW-1, which exceeds the MTCA Method A cleanup level of 15 ug/l. Dissolved lead was detected at a concentration of 1.4 µg/l in the groundwater sample collected from monitoring well FMW-1, suggesting that the concentration of total lead is likely being influenced by suspended soil particles in groundwater.

### 2.3.4 Remedial Actions - 2018

In August 2016 through April 2018, monitoring wells FMW-4 through FMW-7 were installed and sampled at the Site, as discussed in this report. Remedial actions, including in-situ chemical injections, were conducted at the Site beginning in July 2018. The remedial actions and subsequent confirmation groundwater sampling conducted beginning in July 2018 are not discussed in this report. Details regarding the remedial actions and subsequent groundwater sampling are provided in the Remedial Action Report currently being prepared for the Site by Farallon.

# 3.0 MONITORING WELL INSTALLATION AND SAMPLING METHODS

This section describes the methods used by Farallon for the installation and sampling of monitoring wells FMW-4 through FMW-7 in August 2016 through April 2018. Monitoring well FMW-4 was installed in August 2016, monitoring wells FMW-5 and FMW-6 were installed in October 2017, and monitoring well FMW-7 was installed in April 2018. Groundwater monitoring was conducted at the Site in August and November 2016; February, May, and October 2017; and April 2018.

The scope of work included the following activities:

- Locating and marking underground utilities at the proposed boring locations using a private utility location service, and contacting the One-Call Center for public utility location prior to drilling;
- Advancing four borings for the collection of soil samples, and installation of monitoring wells FMW-4 through FMW-7;
- Submitting soil samples collected at the Site for laboratory analysis;
- Developing monitoring wells following installation;
- Conducting groundwater monitoring and sampling of groundwater monitoring wells; and
- Submitting groundwater samples collected at the Site for laboratory analysis.

## 3.1 SOIL SAMPLING

Soil samples were collected from the borings advanced for installation of monitoring wells FMW-4, FMW-5, FMW-6, and FMW-7. The monitoring well locations are shown on Figure 2. Monitoring well FMW-4 was installed in August 2016. Monitoring wells FMW-5 and FMW-6 were installed in October 2017. Monitoring well FMW-7 was installed in April 2018. Detailed boring logs are provided in Appendix A.

Prior to commencement of drilling for installation of FMW-4 through FMW-7, Applied Professional Services of North Bend, Washington conducted a private utility location survey at the Site. Holocene Drilling, Inc. of Puyallup, Washington installed the borings for installation of

monitoring wells FMW-4 through FMW-7. The boring for installation of FMW-4 was installed using an air-knife and vacuum truck, based on the proximity to an underground water utility. The borings for installation of FMW-5 through FMW-7 were installed using a direct-push drilling rig.

Each boring was advanced using a hand-auger to a depth of approximately 5 feet bgs to clear the boring location for potential underground utilities prior to drilling. The borings for installation of monitoring wells FMW-4, FMW-5, and FMW-7 were advanced to a total depth of 15 feet bgs. The boring for installation of monitoring well FMW-6 was advanced to a total depth of 20 feet bgs.

The boring for installation of monitoring well FMW-4 was sampled approximately every 5 feet by pausing air-knife and vacuum truck activity and using a hand-auger to collect samples. The borings for installation of monitoring wells FMW-5 through FMW-7 were sampled continuously from 5 feet bgs to the total depth of each boring using a 5-foot-long stainless steel sampler lined with a disposable polyethylene sleeve. The polyethylene sleeve was removed from the sampler and opened to expose the sample following completion of each sampling interval. Soil samples were described in accordance with the Unified Soil Classification System and ASTM International Standard ASTM D2488-06, *Standard Practice for Description and Identification of Soils;* evidence of potential contamination such as unusual odor, discoloration, or sheen was noted. The soil samples were screened in the field using a photoionization detector to evaluate for the presence of volatile organic vapors.

Soil samples were collected from the boring for installation of monitoring well FMW-4 from depths of 5, 10, and 15 feet bgs for laboratory analysis of GRO and BTEX. The soil sample collected from the boring for installation of monitoring well FMW-4 at a depth of 10 feet bgs was also analyzed for lead. Soil samples were collected from the boring for installation of monitoring well FMW-5 at depths of 11.5 and 14 feet bgs for laboratory analysis of GRO and BTEX. The soil sample collected from the boring for installation of monitoring well FMW-5 at a depth of 11.5 feet bgs was also analyzed for lead. One soil sample was collected from the boring for installation of monitoring well FMW-6 at a depth of 13 feet bgs for laboratory analysis of GRO and BTEX. One

soil sample was collected from the boring for installation of monitoring well FMW-7 at a depth of 9 feet bgs for laboratory analysis of GRO, BTEX, and total lead.

Soil samples collected from the borings were transferred directly into laboratory-prepared containers. Care was taken to not handle the seals or the inside caps of the containers when samples were placed into the containers. Soil sample containers were clearly labeled using a unique sample number, and were immediately placed into an iced cooler. The soil samples were submitted under standard chain-of-custody protocols to OnSite Environmental Inc. of Redmond, Washington for laboratory analysis. Soil samples were analyzed for GRO by Northwest Method NWTPH-GX, BTEX by U.S. Environmental Protection Agency Method 8021B, and lead by U.S. Environmental Protection Agency Method 6010C/6010D.

## 3.1 MONITORING WELL INSTALLATION

The borings for monitoring wells FMW-5 through FMW-7 were over-drilled using 4-inch-diameter boring tools prior to well installation. Monitoring well FMW-4 was installed on August 3, 2016. Monitoring wells FMW-5 and FMW-6 were installed on October 10, 2017. Monitoring well FMW-7 was installed on April 10, 2018. Monitoring well locations are shown on Figure 2. Detailed boring logs are provided in Appendix A.

Monitoring wells FMW-4 through FMW-7 were constructed using 2-inch-diameter Schedule 40 polyvinyl chloride pipe with 0.010-inch slotted polyvinyl chloride well screen. Monitoring wells FMW-4, FMW-5, and FMW-7 were installed to a total depth of 14 feet bgs with screen intervals set between 9 to 14 feet bgs. Monitoring well FMW-6 was installed to a total depth of 16 feet bgs with the screen interval set between 11 to 16 feet bgs.

A bentonite chip seal was emplaced above the 10/20 silica sand pack during installation of monitoring wells FMW-4 through FMW-7. Monitoring wells FMW-4 through FMW-7 were completed using flush-grade traffic-rated monuments encased in concrete.

### 3.1.1 Monitoring Well Development

Following installation, each monitoring well was developed to remove fine-grained materials from the screen and sand pack. A minimum of three to five well casing volumes of water was purged from each monitoring well during development.

### 3.1.2 Monitoring Well Survey

Monitoring wells FMW-4 through FMW-6 were surveyed by professional surveyors from PLS, Inc. of Issaquah, Washington on October 19, 2017. The monitoring wells were surveyed for northing and easting coordinates using the North American Vertical Datum of 1988 and the Washington State Plan Coordinate System of 1983/2011, North Zone. The monitoring wells were surveyed for elevation based on the Washington State Department of Transportation Monument No. 3558 with a published elevation of 41.71 feet. Monitoring well FMW-7 was surveyed for elevation by Farallon on April 18, 2018 using a laser level and previously surveyed monitoring wells FMW-5 and FMW-6 for reference. The survey elevation results are included in Table 1.

## 3.2 GROUNDWATER MONITORING AND SAMPLING

Groundwater elevation monitoring and sampling was conducted at monitoring wells FMW-1 through FMW-4 on August 10 and November 15, 2016; February 23, 2017; and May 18, 2017. Groundwater elevation monitoring and sampling was conducted at monitoring wells FMW-1 through FMW-6 on October 19, 2017. Groundwater elevation monitoring was conducted at monitoring wells FMW-1 through FMW-7 on April 18, 2018, and groundwater sampling was conducted at monitoring well FMW-7 only on April 18, 2018.

Monitoring well locations are shown on Figure 2. The field methods for measurement of groundwater elevation and collection of groundwater samples are described below.

### 3.2.1 Groundwater Elevation

The depth to groundwater in each monitoring well was measured using an electronic water-level indicator prior to sampling. The monitoring wells were opened, and the water levels were allowed to equilibrate for approximately 30 minutes before measurement. The groundwater level was measured to the surveyed reference point on the top of the well casing to derive the groundwater

elevation at each monitoring well. Depth to groundwater measurements were completed for each of the wells monitored in approximately 20 minutes.

### 3.2.2 Groundwater Sample Collection

Before the monitoring wells were purged, the intake for the dedicated polyethylene tubing was placed approximately 1.5 to 2 feet below the depth to water in each monitoring well. Groundwater was purged from each well using a peristaltic pump at a flow rate of approximately 100 milliliters per minute. The flow rate was kept at no greater than approximately 100 milliliters per minute during sampling since significant drawdown occurs in Site monitoring wells while purging.

Field measurements for pH, temperature, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential were collected during purging of groundwater using a water-quality analyzer equipped with a flow-through cell. Groundwater samples were collected after the pH, temperature, and specific conductivity parameters stabilized. Stabilization for pH is determined as a change of plus or minus 0.1 pH unit between readings for three consecutive measurements, and for temperature and specific conductivity as a relative percent difference of less than 3 percent between readings for three consecutive measurements. In some cases, it was not possible to achieve stabilization prior to sampling due to significant water level drawdown during purging. In these instances, the monitoring well was purged dry, allowed to recharge, and sampled immediately following recharge.

Groundwater samples were collected from each well by discharging groundwater directly from the dedicated polyethylene tubing outlet into laboratory-prepared sample containers. The samples were labeled, placed on ice, and transported under chain-of-custody protocols to OnSite Environmental Inc.

### 3.2.3 Groundwater Analytical Methods

Groundwater samples collected from Site monitoring wells in August 2016 through April 2018 were submitted for laboratory analysis for GRO by Northwest Method NWTPH-GX, BTEX by U.S. Environmental Protection Agency Method 8021B, and lead by U.S. Environmental Protection Agency Method 6010C/6010D.

# 4.0 MONITORING WELL INSTALLATION AND SAMPLING RESULTS

The results from the monitoring well installation and sampling activities and laboratory analyses in August 2016 through April 2018 are presented below. Detailed boring logs for each boring are provided in Appendix A. The complete laboratory analytical reports for the soil and groundwater samples are provided in Appendix B.

## 4.1 SOIL CONDITIONS

The borings for installation of monitoring wells FMW-4, FMW-5, and FMW-7 were advanced to a total depth of 15 feet bgs. The boring for installation of monitoring well FMW-6 was advanced to a total depth of 20 feet bgs. Soil encountered during advancement of the borings generally consisted of sand with varying percentages of silt and gravel to a depth of approximately 4.5 to 6.5 feet bgs, followed by silt with varying percentages of sand and gravel to the total depth of the boring.

A slight petroleum-like odor was detected in the boring for monitoring well FMW-4 at a depth of 4.5 to 7 feet bgs. A petroleum-like odor was detected in the boring for installation of monitoring well FMW-5 at depths of 10 to 11.8 feet bgs and 11.8 to 13.2 feet bgs. A slight petroleum-like odor was observed in the boring for installation of monitoring well FMW-6 at a depth of 11.8 to 13.7 feet bgs. A slight petroleum-like odor was observed in the boring for installation of monitoring well FMW-7 at a depth of approximately 10 feet bgs. No staining was observed in any of the borings for installation of monitoring wells FMW-4 through FMW-7.

A slightly elevated PID reading was observed in soil from the boring for installation of monitoring well FMW-4 at a depth of 5 feet bgs at 25.7 parts per million (ppm)[1]. An elevated PID reading was observed in the boring for installation of monitoring well FMW-5 at a depth of 11.5 feet bgs at 314 ppm.

[1] ppm total organic vapors as calibrated to 100 ppm isobutylene span gas and ambient air zero gas.

## 4.2 SOIL ANALYTICAL RESULTS

The analytical results for soil samples collected during installation of monitoring wells FMW-4 through FMW-7 are presented in Tables 2 and 3 and on Figure 3. GRO, BTEX, and lead were not detected at concentrations exceeding MTCA Method A cleanup levels in any of the soil samples collected from the borings for monitoring wells FMW-4 and FMW-7.

GRO was detected at concentrations exceeding the MTCA Method A cleanup level when benzene is present of 30 mg/kg in soil samples collected from the borings for monitoring wells FMW-5 and FMW-6. GRO was detected at a concentration of 130 mg/kg in the soil sample collected from the boring for monitoring well FMW-5 at a depth of 11.5 feet bgs but not detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected at 14 feet bgs. GRO was detected at a concentration of 93 mg/kg in the soil sample collected from the boring for monitoring well FMW-6 at a depth of 13 feet bgs.

Benzene was detected at a concentration exceeding the MTCA Method A cleanup level of 0.03 mg/kg in soil samples collected from the borings for monitoring wells FMW-5 and FMW-6. Benzene was detected at a concentration of 0.043 mg/kg in the soil sample collected from the boring for monitoring well FMW-5 at a depth of 11.5 feet bgs, but was not detected at a concentration exceeding the MTCA Method A cleanup level in the soil sample collected at a depth of 14 feet bgs. Benzene was detected at a concentration of 0.036 mg/kg in the soil sample collected from the boring for monitoring well FMW-6 at a depth of 13 feet bgs.

Lead was not detected at a concentration exceeding the MTCA Method A cleanup level of 250 mg/kg in any of the soil samples collected during installation of monitoring wells FMW-4 through FMW-7.

## 4.3 GROUNDWATER MONITORING AND SAMPLING RESULTS

The following sections present the results from groundwater monitoring and sampling activities conducted at the Site in August 2016 through April 2018. A summary of groundwater elevation

measurements is provided in Table 1. Tables 4 and 5 provide summaries of groundwater analytical results and MTCA cleanup levels for groundwater.

### 4.3.1 Groundwater Elevation

#### 4.3.1.1 August 2016

Groundwater elevations at the Site were measured on August 10, 2016 at monitoring wells FMW-1 through FMW-5. The groundwater elevations measured in August 2016 ranged from 78.22 feet above mean sea level in monitoring well FMW-2 to 84.01 feet above mean sea level in monitoring well FMW-1. Figure 4 depicts groundwater elevation contours as measured on August 10, 2016. Based on these groundwater elevation measurements, the groundwater flow direction at the Site is generally to the northwest.

#### 4.3.1.2 November 2016

Groundwater elevations at the Site were measured on November 15, 2021 at monitoring wells FMW-1 through FMW-5. The groundwater elevations measured in November 2016 ranged from 83.62 feet above mean sea level in monitoring well FMW-4 to 85.26 feet above mean sea level in monitoring well FMW-1. Figure 5 depicts groundwater elevation contours as measured on November 15, 2016. Based on these groundwater elevation measurements, the groundwater flow direction at the Site is generally to the northwest.

#### 4.3.1.3 February 2017

Groundwater elevations at the Site were measured on February 23, 2017 at monitoring wells FMW-1 through FMW-4. The groundwater elevations measured in February 2017 ranged from 81.80 feet above mean sea level in monitoring well FMW-2 to 85.25 feet above mean sea level in monitoring well FMW-1. Figure 6 depicts groundwater elevation contours as measured on February 23, 2017. Based on these groundwater elevation measurements, the groundwater flow direction at the Site is generally to the northwest.

#### 4.3.1.4 May 2017

Groundwater elevations at the Site were measured on May 18, 2017 at monitoring wells FMW-1 through FMW-4. The groundwater elevations measured in May 2017 ranged from 80.80 feet above mean sea level in monitoring well FMW-2 to 84.74 feet above mean sea level in monitoring well FMW-1. Figure 7 depicts groundwater elevation contours as measured on May 18, 2017. Based on these groundwater elevation measurements, the groundwater flow direction at the Site is generally to the northwest.

#### 4.3.1.5 October 2017

Groundwater elevations at the Site were measured on October 19, 2017 at monitoring wells FMW-1 through FMW-6. The groundwater elevations measured in October 2017 ranged from 78.36 feet above mean sea level in monitoring well FMW-6 to 83.65 feet above mean sea level in monitoring well FMW-1. Figure 8 depicts groundwater elevation contours as measured on October 19, 2017. Based on these groundwater elevation measurements, the groundwater flow direction at the Site is generally to the northwest.

#### 4.3.1.6 April 2018

Groundwater elevations at the Site were measured on April 18, 2018 at monitoring wells FMW-1 through FMW-7. The groundwater elevations measured in April 2018 ranged from 80.11 feet above mean sea level in monitoring well FMW-6 to 84.95 feet above mean sea level in monitoring well FMW-1. Figure 9 depicts groundwater elevation contours as measured on April 18, 2018. Based on these groundwater elevation measurements, the groundwater flow direction at the Site is generally to the northwest.

### 4.3.2 Groundwater Analytical Results

Groundwater samples were collected from Site monitoring wells in August 2016 through April 2018. Tables 4 and 5 and Figures 10 and 11 provide summaries of groundwater analytical results and MTCA cleanup levels for groundwater. A summary of analytical results for each sampling event is provided below.

#### 4.3.2.1 August 2016

Groundwater samples were collected from monitoring wells FMW-1 through FMW-4 on August 10 and 11, 2016. GRO was detected at a concentration of 150 µg/l in the groundwater sample collected from monitoring well FMW-1, which does not exceed the MTCA Method A cleanup level of 800 µg/l. GRO was not detected at concentrations exceeding the laboratory practical quantitation limit or the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells FMW-2 through FMW-4 in August 2016. BTEX was not detected at concentrations exceeding laboratory practical quantitation limits or the MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells FMW-1 through FMW-4 in August 2016.

Total lead was detected at a concentration of 49 µg/l in the groundwater sample collected from monitoring well FMW-1 in August 2016, which exceeds the MTCA Method A cleanup level of 15 µg/l. Total lead was not detected at concentrations exceeding the MTCA cleanup level in groundwater samples collected from monitoring wells FMW-3 and FMW-4 in August 2016. Total lead was not analyzed in the groundwater sample collected from monitoring well FMW-2 in August 2016 due to insufficient sample volume as a result of the well purging dry during sampling.

#### 4.3.2.2 November 2016

Groundwater samples were collected from monitoring wells FMW-1 through FMW-4 on November 15, 2016. GRO was detected at a concentration of 110 µg/l in the groundwater sample collected from monitoring well FMW-1, which does not exceed the MTCA Method A cleanup level of 800 µg/l. GRO was not detected at concentrations exceeding the laboratory practical quantitation limit or the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells FMW-2 through FMW-4. BTEX constituents were not detected at concentrations exceeding laboratory practical quantitation limits or the MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells FMW-1 through FMW-4 in November 2016.

Total lead was detected at a concentration of 26 µg/l in the groundwater sample collected from monitoring well FMW-1 in November 2016, which exceeds the MTCA Method A cleanup level of 15 µg/l. Dissolved lead was not detected at a concentration exceeding the laboratory practical quantitation limit or the MTCA Method A cleanup level in the groundwater sample collected from monitoring well FMW-1 in November 2016. Total and dissolved lead were not detected at concentrations exceeding the MTCA cleanup level in groundwater samples collected from monitoring wells FMW-2 through FMW-4 in November 2016.

#### 4.3.2.3 February 2017

Groundwater samples were collected from monitoring wells FMW-1 through FMW-4 on February 23, 2017. GRO was detected at a concentration of 210 µg/l in the groundwater sample collected from monitoring well FMW-1, which does not exceed the MTCA Method A cleanup level of 800 µg/l. GRO was not detected at concentrations exceeding the laboratory practical quantitation limit or the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells FMW-2 through FMW-4. BTEX constituents were not detected at concentrations exceeding laboratory practical quantitation limits or the MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells FMW-1 through FMW-4 in February 2017.

Total lead was detected at a concentration of 17 µg/l in the groundwater sample collected from monitoring well FMW-1 and at a concentration of 84 µg/l in the groundwater sample collected from monitoring well FMW-2, both of which exceed the MTCA Method A cleanup level of 15 µg/l. Dissolved lead was not detected at a concentration exceeding the laboratory practical quantitation limit or the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells FMW-1 and FMW-2 in February 2017. Total and dissolved lead were not detected at concentrations exceeding the MTCA cleanup level in groundwater samples collected from monitoring wells FMW-3 and FMW-4 in February 2017.

#### 4.3.2.4 May 2017

Groundwater samples were collected from monitoring wells FMW-1 through FMW-4 on May 18, 2017. GRO was detected at a concentration of 150 µg/l in the groundwater sample collected from monitoring well FMW-1, which does not exceed the MTCA Method A cleanup level of 800 µg/l. GRO was not detected at concentrations exceeding the laboratory practical quantitation limit or the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells FMW-2 through FMW-4. BTEX constituents were not detected at concentrations exceeding laboratory practical quantitation limits or the MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells FMW-1 through FMW-4 in May 2017.

Total lead was detected at concentrations exceeding the MTCA Method A cleanup level of 15 µg/l in the groundwater sample collected from monitoring wells FMW-1 and FMW-3. Total lead was detected at a concentration of 42 µg/l in the groundwater sample collected from monitoring well FMW-1 and at a concentration of 56 µg/l in the groundwater sample collected from monitoring well FMW-3. Dissolved lead was not detected at concentrations exceeding the laboratory practical quantitation limit in the groundwater samples collected from monitoring wells FMW-1 and FMW-3. Total and dissolved lead were not detected at concentrations exceeding the MTCA cleanup level in groundwater samples collected from monitoring wells FMW-3 and FMW-4 in May 2017.

#### 4.3.2.5 October 2017

Groundwater samples were collected from monitoring wells FMW-1 through FMW-6 on May 18, 2017. GRO was detected at a concentration of 130 µg/l in the groundwater sample collected from monitoring well FMW-6, which does not exceed the MTCA Method A cleanup level of 800 µg/l. GRO was detected at a concentration of 4,100 µg/l in the groundwater sample collected from monitoring well FMW-5, which exceeds the MTCA Method A cleanup level. GRO was not detected at concentrations exceeding the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells

FMW-1 through FMW-4. BTEX constituents were not detected at concentrations exceeding MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells FMW-1 through FMW-6 in October 2017. Total and dissolved lead were not detected at concentrations exceeding the MTCA Method A cleanup level in the groundwater samples collected from monitoring wells FMW-1 through FMW-6 in October 2017.

#### 4.3.2.6 April 2017

Groundwater sampling was conducted at monitoring well FMW-7 only in late April 2017, following installation of the well in early April 2017. GRO, BTEX, total lead, and dissolved lead were not detected at concentrations exceeding MTCA Method A cleanup levels in the groundwater sample collected from monitoring well FMW-7 in April 2017.

# 5.0 CONCLUSIONS

The analytical results of soil samples collected during installation of monitoring wells FMW-4 through FMW-7 in 2016 through 2018 indicate that GRO and benzene were present at concentrations exceeding MTCA Method A cleanup levels in soil samples collected from the borings for installation of monitoring wells FMW-5 and FMW-6.

The analytical results of groundwater sampling conducted at the Site in August 2016 through April 2018 indicate that GRO was present at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from monitoring well FMW-5 in October 2017. BTEX constituents were not detected at concentrations exceeding MTCA Method A cleanup levels in the groundwater sample collected from monitoring well FMW-5 in October 2017. GRO and BTEX were not detected at concentrations exceeding the MTCA Method A cleanup levels in groundwater samples collected from monitoring wells FMW-1 through FMW-4, FMW-6, and FMW-7 during groundwater sampling events conducted in August 2016 through April 2018.

Total lead was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring well FMW-1 in August and November 2016, February 2017, and May 2017; from monitoring well FMW-2 in February 2017; and from monitoring well FMW-3 in May 2017. Dissolved lead was not detected at a concentration exceeding the MTCA cleanup level in any of the groundwater samples collected from monitoring wells FMW-1 through FMW-7 in August 2016 through April 2018. The detections of total lead in groundwater samples collected from Site monitoring wells is likely related to suspended sediment in the groundwater samples.

# 6.0 REFERENCES

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Washington State Department of Ecology. 1991. *Guidance for Site Checks and Site Assessments for Underground Storage Tanks.* Revised April 2003.

# 7.0 LIMITATIONS

## 7.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information**. Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization**. Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and Endolyne Apartments, LLC, and currently accepted industry standards. No other warranties, representations, or certifications are made.

## 7.2 LIMITATION ON RELIANCE BY THIRD PARTIES

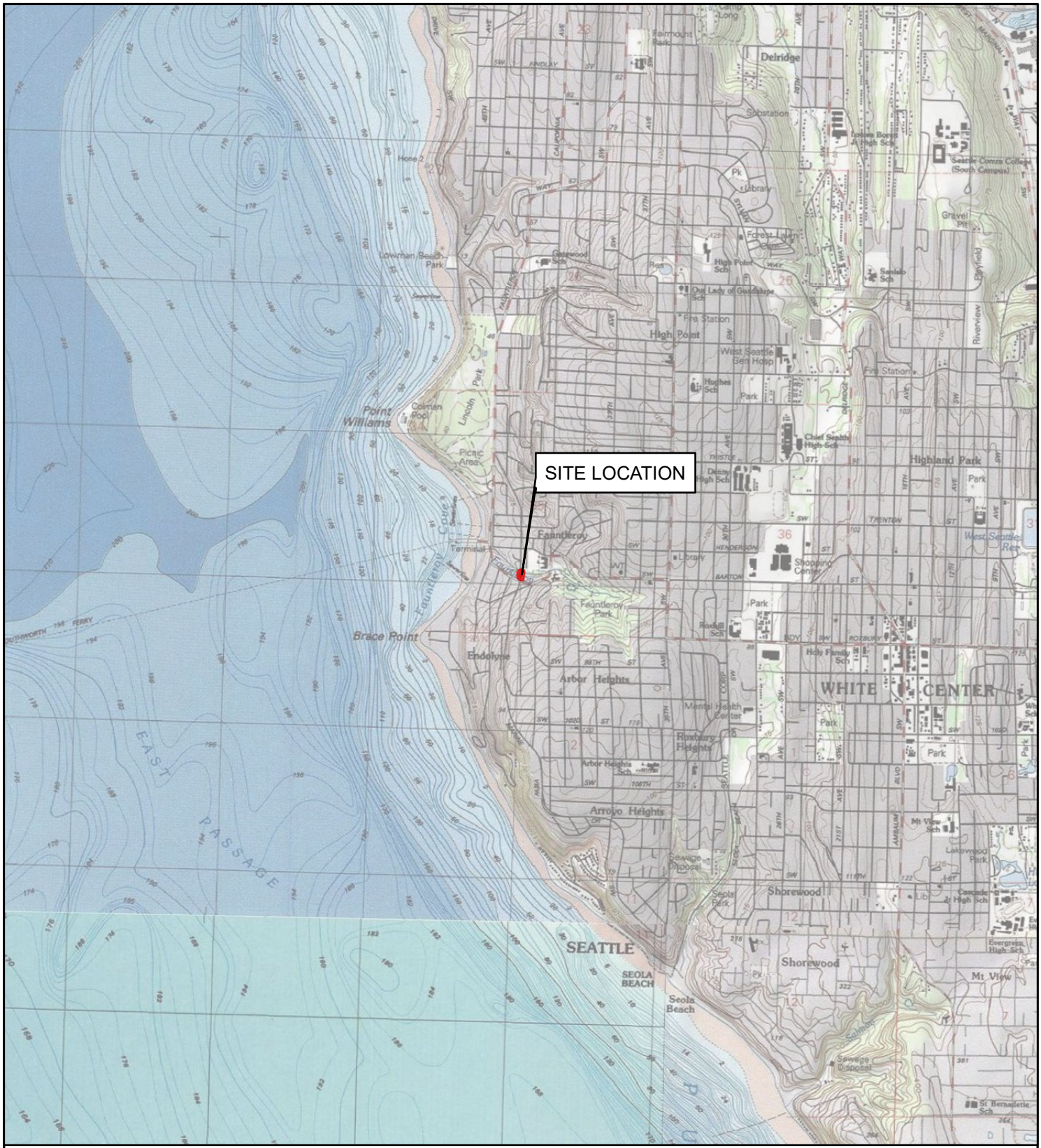
**Reliance by third parties is prohibited**. This report/assessment has been prepared for the exclusive use of Endolyne Apartments, LLC to address the unique needs of Endolyne Apartments, LLC at the Site at a specific point in time.

This is not a general grant of reliance. No one other than Endolyne Apartments, LLC may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

# FIGURES

MONITORING WELL INSTALLATION AND SAMPLING REPORT
Endolyne Garden Apartments
Seattle, Washington

Farallon PN: 1295-001




REFERENCE: 7.5 MINUTE USGS QUADRANGLE DUWAMISH HEAD, WASHINGTON, DATED 2013


0 3,000
SCALE IN FEET

N

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# FIGURE 1

SITE VICINITY MAP
ENDOLYNE GARDEN APARTMENTS
9212 45th AVENUE SOUTHWEST
SEATTLE, WASHINGTON

FARALLON PN: 1295-001

Drawn By: TPerrin | Checked By: LN | Date: 5/4/2021

Disc Reference:
Path: Q:\Projects\1295_Endolyne\Mapfiles\Figure-01_VicinityMap_WA.mxd


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-1 MONITORING WELL LOCATION

B3 BORING LOCATION WITH RECONNAISSANCE GROUNDWATER SAMPLE

B1 BORING LOCATION

FORMER UNDERGROUND STORAGE TANK (UST)

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

ALL LOCATIONS ARE APPROXIMATE

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# FIGURE 2

SITE MAP
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

FARALLON PN: 1295-001

Drawn By: NM | Checked By: LN | Date: 5/5/2021 | Disk Reference: 1295-001.dwg

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APPROXIMATE PROPERTY BOUNDARY

FORMER UNDERGROUND STORAGE TANK (UST)

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

FMW-1 MONITORING WELL LOCATION

B3 BORING LOCATION WITH RECONNAISSANCE GROUNDWATER SAMPLE

B1 SOIL BORING LOCATION

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LEGEND

ALL SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM
SOIL ANALYTICAL RESULTS REPORTED AS: [DEPTH BGS|GRO|B|T|E|X]

BGS = BELOW GROUND SURFACE
GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT

**BOLD** = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION CLEANUP LEVEL


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# FIGURE 3

SITE PLAN WITH SOIL ANALYTICAL RESULTS FOR TPH AS GRO AND BTEX - AUGUST 2016 - APRIL 2018
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

FARALLON PN: 1295-001

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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-01 MONITORING WELL LOCATION

(84.01) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

84.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER UNDERGROUND STORAGE TANK

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

0 20
SCALE IN FEET

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# FIGURE 4

GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 10, 2016
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-01 MONITORING WELL LOCATION

(84.69) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

84.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER UNDERGROUND STORAGE TANK

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

0 20
SCALE IN FEET

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# FIGURE 5

GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 15, 2016
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-01 MONITORING WELL LOCATION

(84.61) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

84.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER UNDERGROUND STORAGE TANK

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

0 20
SCALE IN FEET

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# FIGURE 6

GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 23, 2017
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

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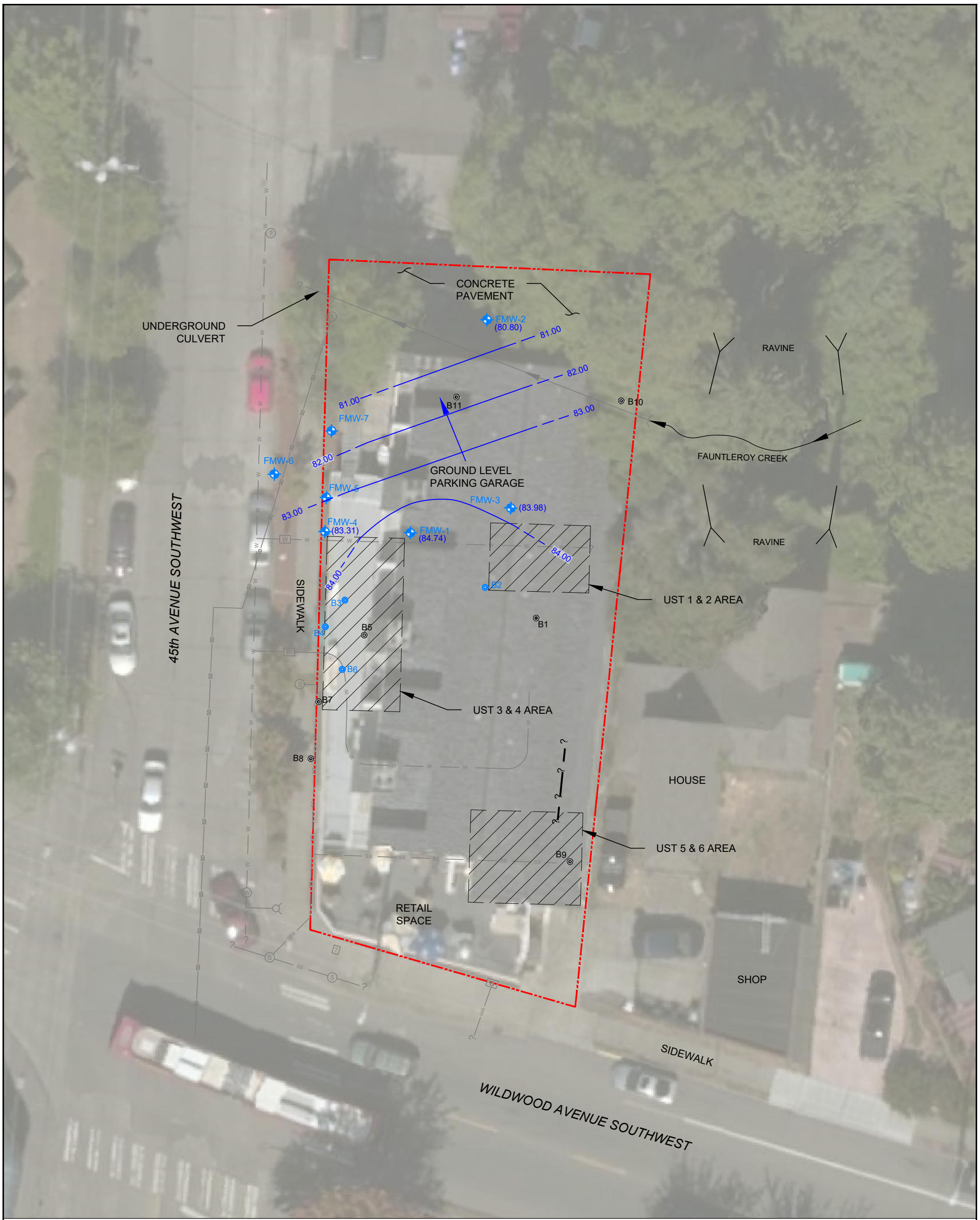


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-01 — MONITORING WELL LOCATION

(84.74) — GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

84.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER UNDERGROUND STORAGE TANK

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

0 20
SCALE IN FEET

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# FIGURE 7

GROUNDWATER ELEVATION CONTOUR MAP
MAY 18, 2017
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-01 MONITORING WELL LOCATION

(83.65) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

83.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER UNDERGROUND STORAGE TANK

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

0 20
SCALE IN FEET

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# FIGURE 8

GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 19, 2017
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- UTILITY LOCATION UNKNOWN
- WATER METER
- GAS METER
- HYDRANT
- WATER MANHOLE
- SANITARY SEWER MANHOLE
- UNKNOWN UTILITY VAULT OR MANHOLE

FMW-01 MONITORING WELL LOCATION

(83.48) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

84.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FORMER UNDERGROUND STORAGE TANK

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

0 20
SCALE IN FEET

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# FIGURE 9

GROUNDWATER ELEVATION CONTOUR MAP
APRIL 18, 2018
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

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LEGEND

APPROXIMATE PROPERTY BOUNDARY

FORMER UNDERGROUND STORAGE TANK (UST)

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

FMW-1 MONITORING WELL LOCATION

B3 BORING LOCATION WITH RECONNAISSANCE GROUNDWATER SAMPLE

B1 SOIL BORING LOCATION

ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER

GROUNDWATER ANALYTICAL RESULTS REPORTED AS: [SAMPLE DATE|GRO|B|T|E|X]

GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS

B = BENZENE

T = TOLUENE

E = ETHYLBENZENE

X = TOTAL XYLENES

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT

**BOLD** = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION CLEANUP LEVEL

ALL LOCATIONS ARE APPROXIMATE

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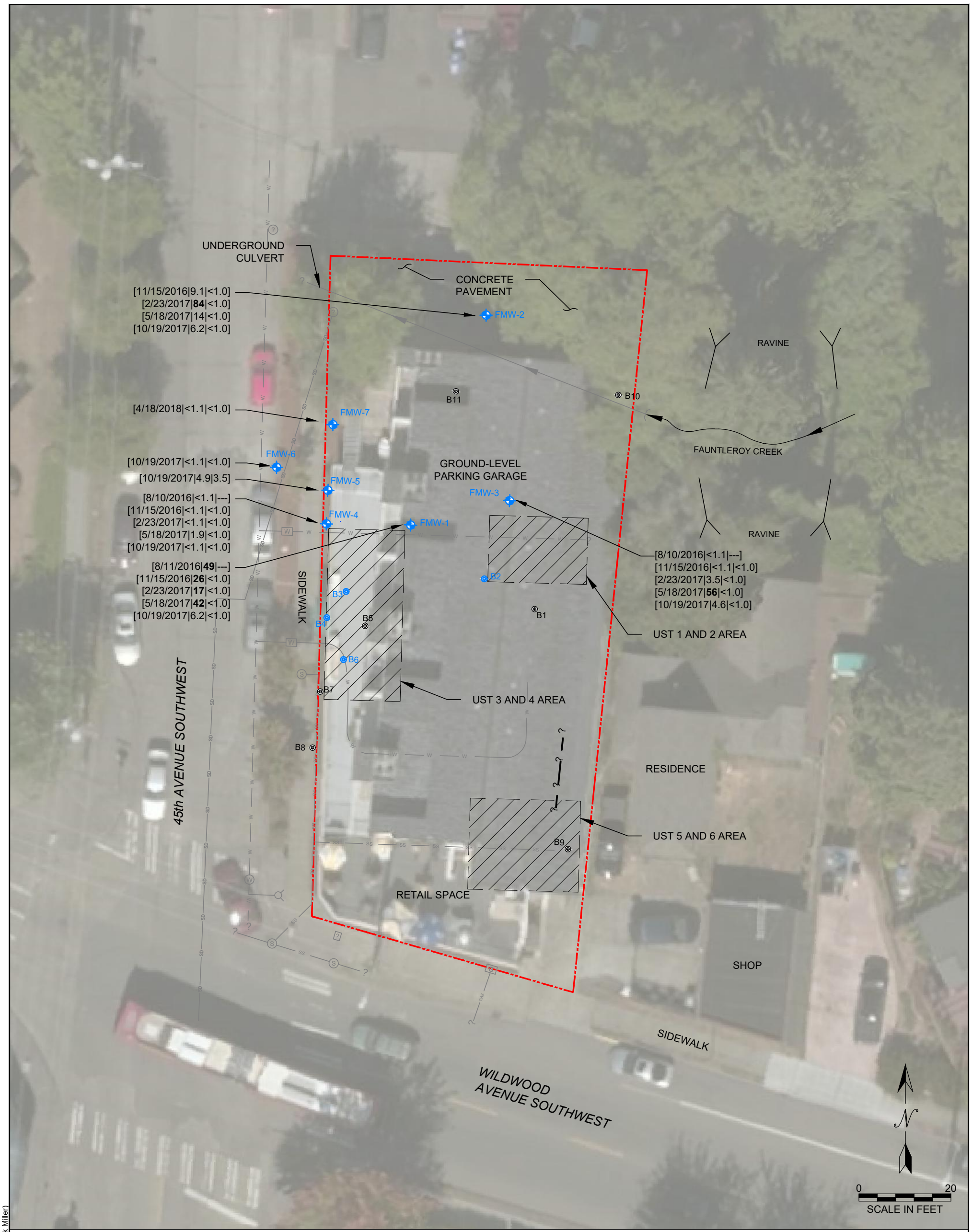
# FIGURE 10

SITE PLAN WITH GROUNDWATER ANALYTICAL RESULTS FOR TPH AS GRO AND BTEX - OCTOBER 2017 - APRIL 2018
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

FARALLON PN: 1295-001

Drawn By: NM | Checked By: LN | Date: 6/8/2021 | Disk Reference: 1295-001.dwg




LEGEND

APPROXIMATE PROPERTY BOUNDARY

FORMER UNDERGROUND STORAGE TANK (UST)

SLOPE ASPECT INDICATOR WITH "V" OPENING IN UPHILL DIRECTION

FMW-1 MONITORING WELL LOCATION

B3 BORING LOCATION WITH RECONNAISSANCE GROUNDWATER SAMPLE

B1 SOIL BORING LOCATION

ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER
GROUNDWATER ANALYTICAL RESULTS REPORTED AS:
[SAMPLE DATE|TOTAL LEAD|DISSOLVED LEAD]

< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE LISTED REPORTING LIMIT

**BOLD** = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION CLEANUP LEVEL

--- = DENOTES SAMPLE NOT ANALYZED

ALL LOCATIONS ARE APPROXIMATE
FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION

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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Bend | Baker City

California
Oakland | Irvine

# FIGURE 11

SITE PLAN WITH GROUNDWATER ANALYTICAL RESULTS FOR TOTAL AND DISSOLVED LEAD - AUGUST 2016 - APRIL 2018
ENDOLYNE GARDEN APARTMENTS
9212 45TH AVENUE SOUTHWEST
SEATTLE, WASHINGTON

FARALLON PN: 1295-001

Drawn By: NM | Checked By: LN | Date: 6/8/2021 | Disk Reference: 1295-001.dwg

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# TABLES

MONITORING WELL INSTALLATION AND SAMPLING REPORT
Endolyne Garden Apartments
Seattle, Washington

Farallon PN: 1295-001

# Table 1
## Groundwater Elevations
## Endolyne Garden Apartments
## Seattle, Washington
## Farallon PN: 1295-001

| Location | Top of Casing Elevation (feet)[1] | Date Measured | Well Depth (feet)[2] | Depth to Water (feet)[3] | Groundwater Elevation (feet)[1] |
|---|---|---|---|---|---|
| FMW-1 | 91.87 | 8/10/2016 | 9.37 | 7.86 | 84.01 |
| | | 11/15/2016 | 9.39 | 6.61 | 85.26 |
| | | 2/23/2017 | 9.40 | 6.62 | 85.25 |
| | | 5/18/2017 | 9.40 | 7.13 | 84.74 |
| | | 10/19/2017 | 9.40 | 8.22 | 83.65 |
| | | 4/18/2018 | 9.40 | 6.92 | 84.95 |
| FMW-2 | 91.60 | 8/10/2016 | 14.84 | 13.38 | 78.22 |
| | | 11/15/2016 | 14.82 | 6.91 | 84.69 |
| | | 2/23/2017 | 14.82 | 9.80 | 81.80 |
| | | 5/18/2017 | 14.81 | 10.80 | 80.80 |
| | | 10/19/2017 | 14.82 | 9.28 | 82.32 |
| | | 4/18/2018 | 14.82 | 9.43 | 82.17 |
| FMW-3 | 91.65 | 8/10/2016 | 10.32 | 8.21 | 83.44 |
| | | 11/15/2016 | 10.34 | 6.89 | 84.76 |
| | | 2/23/2017 | 10.35 | 7.04 | 84.61 |
| | | 5/18/2017 | 10.35 | 7.67 | 83.98 |
| | | 10/19/2017 | 10.35 | 8.41 | 83.24 |
| | | 4/18/2018 | 10.35 | 7.30 | 84.35 |
| FMW-4 | 92.47 | 8/10/2016 | 14.85 | 10.71 | 81.76 |
| | | 11/15/2016 | 14.82 | 8.85 | 83.62 |
| | | 2/23/2017 | 14.85 | 8.73 | 83.74 |
| | | 5/18/2017 | 14.85 | 9.16 | 83.31 |
| | | 10/19/2017 | 14.85 | 10.90 | 81.57 |
| | | 4/18/2018 | 14.85 | 8.99 | 83.48 |

**Table 1**
**Groundwater Elevations**
**Endolyne Garden Apartments**
**Seattle, Washington**
**Farallon PN: 1295-001**

| | | | | | |
|---|---|---|---|---|---|
| FMW-5 | 92.15 | 10/19/2017 | 13.10 | 11.30 | 80.85 |
| | | 4/18/2018 | 13.10 | 9.36 | 82.79 |
| FMW-6 | 91.66 | 10/19/2017 | 15.52 | 13.30 | 78.36 |
| | | 4/18/2018 | 15.52 | 11.55 | 80.11 |
| FMW-7 | 91.85 | 4/18/2018 | 14.10 | 10.28 | 81.57 |

NOTES:
[1] Elevations based on Washington State Department of Transportation Monument No. 3558 with a published elevation of 41.71 feet.
[2] In feet below ground surface.
[3] In feet below top of well casing.

NM = not measured

# Table 2
## Laboratory Analytical Results for Soil Samples – TPH and BTEX
## Endolyne Garden Apartments
## Seattle, Washington
## Farallon PN: 1295-001

| Sample Location | Sample Identification | Sample Depth (feet)[1] | Sample Date | GRO[2] | Benzene[3] | Toluene[3] | Ethylbenzene[3] | Total Xylenes[3] |
|---|---|---|---|---|---|---|---|---|
| FMW-4 | FMW4-5.0 | 5.0 | 8/3/2016 | < 6.5 | < 0.020 | < 0.065 | < 0.065 | < 0.130 |
| | FMW4-10.0 | 10.0 | 8/3/2016 | < 5.8 | < 0.020 | < 0.058 | < 0.058 | < 0.116 |
| | FMW4-15.0 | 15.0 | 8/3/2016 | < 7.3 | < 0.020 | < 0.073 | < 0.073 | < 0.146 |
| FMW-5 | FMW5-11.5 | 11.5 | 10/10/2017 | **130** | **0.043** | < 0.15 | < 0.75 | 0.45 |
| | FMW5-14.0 | 14.0 | 10/10/2017 | < 14 | < 0.028 | < 0.14 | < 0.14 | < 0.28 |
| FMW-6 | FMW6-13.0 | 13.0 | 10/10/2017 | **93** | **0.036** | < 0.11 | 0.24 | 0.32 |
| FMW-7 | FMW7-9.0 | 9.0 | 4/10/2018 | < 7.5 | < 0.020 | < 0.075 | < 0.075 | < 0.150 |
| **MTCA Method A Cleanup Levels for Soil[4]** | | | | **30/100[5]** | **0.03** | **7** | **6** | **9** |

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory practical quantitation limit listed.

-- denotes sample was not analyzed.

BTEX = benzene, toluene, ethylbenzene, and xylenes

GRO = TPH as gasoline-range organics

[1]Depth in feet below ground surface.

[2]Analyzed by Northwest Method NWTPH-Gx.

[3]Analyzed by U.S. Environmental Protection Agency Method 8021B.

[4]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended 2013.

[5]The MTCA Method A cleanup level for GRO in soil is 100 milligrams per kilogram for gasoline mixtures without benzene, and the total of ethylbenzene, toluene, and xylenes are less than 1 percent of the gasoline mixture. For all other mixtures, the MTCA Method A cleanup level for GRO in soil is 30 milligrams per kilogram.

# Table 3
## Laboratory Analytical Results for Soil Samples – Lead
## Endolyne Garden Apartments
## Seattle, Washington
## Farallon PN: 1295-001

| Sample Location | Sample Identification | Sample Depth (feet)[1] | Sample Date | Analytical Results (milligrams per kilogram)[2] |
|---|---|---|---|---|
| | | | | Total Lead |
| FMW-4 | FMW4-10.0 | 10.0 | 8/3/2016 | < 5.7 |
| FMW-5 | FMW5-11.5 | 11.5 | 10/10/2017 | 15 |
| FMW-7 | FMW7-9.0 | 9.0 | 4/10/2018 | 6.8 |
| **MTCA Method A Cleanup Levels for Soil[3]** | | | | **250** |

NOTES:

< denotes analyte not detected at or exceeding the laboratory practical quantitation limit listed.

[1]Depth in feet below ground surface.

[2]Analyzed by U.S. Environmental Protection Agency Method 6010C or 6010D.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

# Table 4
## Laboratory Analytical Results for Groundwater Samples – TPH and BTEX
## Endolyne Garden Apartments
## Seattle, Washington
## Farallon PN: 1295-001

| Sample Location | Sample Date | Sample Identification | Analytical Results (micrograms per liter) | | | | |
|---|---|---|---|---|---|---|---|
| | | | GRO[2] | Benzene[3] | Toluene[3] | Ethylbenzene[3] | Total Xylenes[3] |
| FMW-1 | 8/10/2016 | FMW-01-081016 | 150 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 11/15/2016 | FMW-1-111516 | 110 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 2/23/2017 | FMW-1-022317 | 210 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 5/18/2017 | FMW-1-051817 | 150 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 10/19/2017 | FMW-1-101917 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| FMW-2 | 8/11/2016 | FMW-02-081116 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 11/15/2016 | FMW-2-111516 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 2/23/2017 | FMW-2-022317 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 5/18/2017 | FMW-2-051817 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 10/19/2017 | FMW-2-101917 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| FMW-3 | 8/10/2016 | FMW-03-081016 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 11/15/2016 | FMW-3-111516 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 2/23/2017 | FMW-3-022317 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 5/18/2017 | FMW-3-051817 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 10/19/2017 | FMW-3-101917 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| **MTCA Method A Cleanup Level for Groundwater[3]** | | | **800/1,000 [4]** | **5** | **1,000** | **700** | **1,000** |
| FMW-4 | 8/10/2016 | FMW-04-081016 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 11/15/2016 | FMW-4-111516 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 2/23/2017 | FMW-4-022317 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 5/18/2017 | FMW-4-051817 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| | 10/19/2017 | FMW-4-101917 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| FMW-5 | 10/19/2017 | FMW-5-101917 | **4,100** | < 4.0 | < 4.0 | 6.6 | 17.9 |
| FMW-6 | 10/19/2017 | FMW-6-101917 | 130 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| FMW-7 | 4/18/2018 | FMW-7-041818 | < 100 | < 1.0 | < 1.0 | < 1.0 | < 2.0 |
| **MTCA Method A Cleanup Level for Groundwater[3]** | | | **800/1,000 [4]** | **5** | **1,000** | **700** | **1,000** |

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory practical quantitation limit listed.

— denotes sample not analyzed.

[1]Analyzed by Northwest Method NWTPH-Dx.

[2]Analyzed by Northwest Method NWTPH-Gx.

[3]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

GRO = TPH as gasoline-range organics

ORO = TPH as oil-range organics

Z = The sample chromatogram is similar to mineral spirits

[4]For detectable benzene in groundwater. If benzene is not detected in groundwater, the MTCA Method A cleanup level for GRO in groundwater is 1,000 micrograms per liter.

# Table 5
## Laboratory Analytical Results for Groundwater Samples – Lead
## Endolyne Garden Apartments
## Seattle, Washington
## Farallon PN: 1295-001

| Sample Location | Sample Date | Sample Identification | Analytical Results (micrograms per liter)[1] | |
|---|---|---|---|---|
| | | | Total Lead | Dissolved Lead |
| FMW-1 | 8/11/2016 | FMW-01-081116 | **49** | --- |
| | 11/15/2016 | FMW-1-111516 | **26** | < 1.0 |
| | 2/23/2017 | FMW-1-022317 | **17** | < 1.0 |
| | 5/18/2017 | FMW-1-051817 | **42** | < 1.0 |
| | 10/19/2017 | FMW-1-101917 | 6.2 | < 1.0 |
| FMW-2 | 11/15/2016 | FMW-2-111516 | 9.1 | < 1.0 |
| | 2/23/2017 | FMW-2-022317 | **84** | < 1.0 |
| | 5/18/2017 | FMW-2-051817 | 14 | < 1.0 |
| | 10/19/2017 | FMW-2-101917 | 6.2 | < 1.0 |
| FMW-3 | 8/10/2016 | FMW-03-081016 | < 1.1 | --- |
| | 11/15/2016 | FMW-3-111516 | < 1.1 | < 1.0 |
| | 2/23/2017 | FMW-3-022317 | 3.5 | < 1.0 |
| | 5/18/2017 | FMW-3-051817 | **56** | < 1.0 |
| | 10/19/2017 | FMW-3-101917 | 4.6 | < 1.0 |
| FMW-4 | 8/10/2016 | FMW-04-081016 | < 1.1 | --- |
| | 11/15/2016 | FMW-4-111516 | < 1.1 | < 1.0 |
| | 2/23/2017 | FMW-4-022317 | < 1.1 | < 1.0 |
| | 5/18/2017 | FMW-4-051817 | 1.9 | < 1.0 |
| | 10/19/2017 | FMW-4-101917 | < 1.1 | < 1.0 |
| FMW-5 | 10/19/2017 | FMW-5-101917 | 4.9 | 3.5 |
| FMW-6 | 10/19/2017 | FMW-6-101917 | < 1.1 | < 1.0 |
| FMW-7 | 4/18/2018 | FMW-7-041818 | < 1.1 | < 1.0 |
| **MTCA Method A Cleanup Level for Groundwater[2]** | | | **15** | |

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory practical quantitation limit listed.

– denotes sample not analyzed.

[1]Analyzed by U.S. Environmental Protection Agency Method 200.8.

[2]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

# APPENDIX A
# BORING LOGS

MONITORING WELL INSTALLATION AND SAMPLING REPORT
Endolyne Garden Apartments
Seattle, Washington

Farallon PN: 1295-001

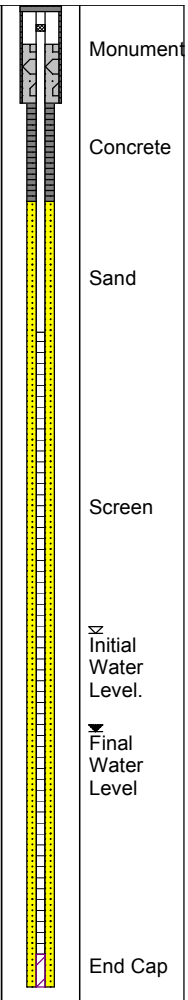
# Log of Boring: FMW-4



**Client:** Mr. Steve Lazoff
**Project:** Endolyne Garden Apartments
**Location:** Seattle, Washington.
**Farallon PN:** 1295-001
**Logged By:** Ken Scott

| | | | |
|---|---|---|---|
| **Date/Time Started:** | 8/3/2016 @ 0820 | **Sampler Type:** | Hand Auger |
| **Date/Time Completed:** | 8/3/2016 @ 1120 | **Drive Hammer (lbs.):** | NA |
| **Equipment:** | Master Vac 1,000 | **Depth of Water ATD (ft bgs):** | 11.10 |
| **Drilling Company:** | Holocene Drilling | **Total Boring Depth (ft bgs):** | 15.0' |
| **Drilling Foreman:** | Kevin Doyle | **Total Well Depth (ft bgs):** | 15.0 |
| **Drilling Method:** | Air-Knife | | |

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USGS Graphic | % Recovery | Blow Counts 8/8/8 | PID (ppm) | Sample ID | Sample Analyzed |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | 0.0-0.5': Sandy SILT with gravel Fill (50% silt, 35% sand, 15% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. Grass root rhizomes. Air Knife to 15-feet bgs to clear for utilities (Ok), and set well. | ML | | | | 0.0 | | |
| | | | SM | | | | | | |
| | | 0.5-1.4': Silty SAND with gravel Fill (55% sand, 25% silt, 20% gravel), fine to coarse sand, fine to coarse gravel, yellowish-brown, very dense, moist, no odor, no sheen. Grass root rhizomes. | SM | | 100 | NA | 2.6 | FMW4-2.5 @ 845 | |
| | | 1.4-4.5': Silty SAND (80% sand, 15% silt, 5% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. Observe root rhizomes to about 3-feet bgs. | | | | | | | |
| 5 | | 4.5-~7.0': SILT with sand (75% silt, 20% sand, 5% gravel), fine to medium sand, fine gravel, brown, moist, slight odor, no sheen. Numerous 2-inch SILT chunks. | ML | | 100 | NA | 25.7 | FMW4-5.0 @ 0900 | X |
| | | ~7.0-9.0': Sandy SILT (65% silt, 35% sand), fine to medium sand, blueish-green, moist to wet @ 9.6-feet bgs, no odor, no sheen. | ML | | | | | | |
| 10 | | ~9.0-15.0': Silty SAND (75% sand, 25% silt), fine sand, brown, wet, no odor, no sheen. Observed 3-inch subrounded gray cobble stuck in vac-hose at~13-feet bgs. | SM | | 100 | NA | 1.1 | FMW4-10.0 @ 945 | X |
| 15 | | | | | 100 | NA | 0.6 | FMW4-15.0 @ 1045 | X |




## Well Construction Information

| | | | |
|---|---|---|---|
| **Monument Type:** | Flush Mount | **Filter Pack:** | Silica Sand 10/20 |
| **Casing Diameter (inches):** | 2.0" | **Surface Seal:** | Concrete |
| **Screen Slot Size (inches):** | 0.010 | **Annular Seal:** | Concrete |
| **Screened Interval (ft bgs):** | 5' - 15' | **Boring Abandonment:** | NA |

**Ground Surface Elevation (ft):** NA
**Top of Casing Elevation (ft):** NA
**Surveyed Location:** **X:** NA **Y:** NA

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# Log of Boring: FMW-5



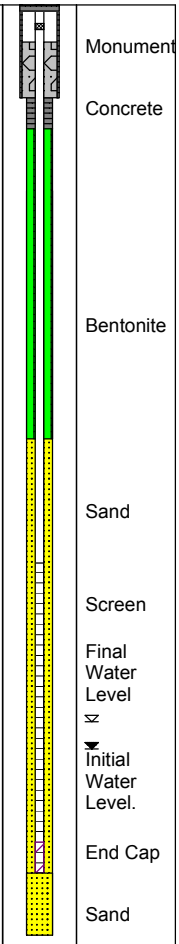
**Client:** Mr. Steve Lazoff
**Project:** Endolyne Garden Apartments
**Location:** Seattle, Washington.

**Farallon PN:** 1295-001

**Logged By:** Ken Scott

| | | | |
|---|---|---|---|
| **Date/Time Started:** | 10/10/2017 @ 0945 | **Sampler Type:** | 5-foot macrocore liner |
| **Date/Time Completed:** | 10/10/2017 @ 1030 | **Drive Hammer (lbs.):** | Autohammer |
| **Equipment:** | Geoprobe 7822DT | **Depth of Water ATD (ft bgs):** | 12.0 |
| **Drilling Company:** | Holocene Drilling | **Total Boring Depth (ft bgs):** | 15.0' |
| **Drilling Foreman:** | Mitch Mc Carlay | **Total Well Depth (ft bgs):** | 14.0 |
| **Drilling Method:** | Direct push | | |

| Depth (feet bgs.) | Lithologic Description | USCS | % Recovery | Blow Counts 8/8/8 | PID (ppm) | Sample ID | Sample Analyzed |
|---|---|---|---|---|---|---|---|
| 0 | 0.0-0.3': Organic (100% grass) Grass root rhizomes. Hand auger to 5-feet bgs to clear for utilities (Ok). | TOPSOIL | | | | | |
| | 0.3-0.6': Sandy SILT with gravel Fill (50% silt, 35% sand, 15% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. Grass root rhizomes. Observed bentonite from prior borings B3, B3A adjacent east. | ML / SM | | | | | |
| | 0.6-2.5': Silty SAND Fill (80% sand, 20% silt,), fine to medium sand, tan, moist, no odor, no sheen. | SM | 100 | NA | 0.0 | | |
| | 2.5-5.0': Silty SAND with gravel Fill (65% sand, 20% silt, 15% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen. | | | | 0.0 | | |
| 5 | 5.0-6.6': Silty SAND with gravel (65% sand, 20% silt, 15% gravel), fine to medium sand, fine to coarse gravel, tan, moist, no odor, no sheen. | SM | | | 0.0 | FMW5-5.0 @ 930 | |
| | 6.6-9.0': SILT (95% silt, 5% sand), fine sand, tan, moist, no odor, no sheen. | ML | 90 | NA | 0.0 | | |
| | 9.0-10.0': No Recovery. | | | | 0.0 | FMW5-9.0 @ 950 | |
| 10 | 10.0-11.8': Sandy SILT (60% silt, 40% sand), fine sand, gray, moist to slight wet (capillary-fringe), petroleum-like odor, no sheen. | ML | | | 8.2 | | |
| | 11.8-13.2': Silty SAND with gravel (65% sand, 20% silt, 15% gravel), fine to medium sand, fine to coarse gravel, gray, wet, petroleum-like odor, no sheen. | SM | 100 | NA | 314 | FMW5-11.5 @ 1000 | X |
| | 13.2-15.0': SILT (100% silt), fine sand, gray, wet, slight odor @ 13-feet bgs with no odor from 14 to 15-feet bgs, no sheen. | ML | | | 8.1 | | |
| 15 | | | | | 0.0 | FMW5-14.0 @ 1010 | |
| | | | | | 0.0 | | |




## Well Construction Information

| | | | | | |
|---|---|---|---|---|---|
| **Monument Type:** | Flush Mount | **Filter Pack:** | Silica Sand 10/20 | **Ground Surface Elevation (ft):** | NA |
| **Casing Diameter (inches):** | 2.0" | **Surface Seal:** | Concrete | **Top of Casing Elevation (ft):** | NA |
| **Screen Slot Size (inches):** | 0.010 | **Annular Seal:** | Bentonite | **Surveyed Location:** | **X:** NA |
| **Screened Interval (ft bgs):** | 9' - 14' | **Boring Abandonment:** | NA | | **Y:** NA |

# Log of Boring: FMW-6



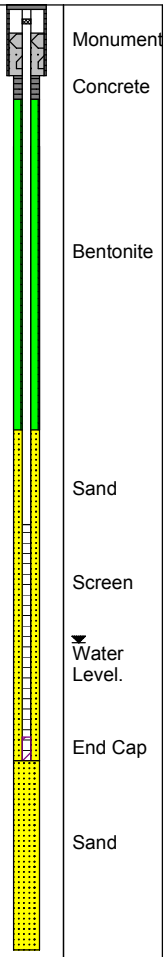
**Client:** Mr. Steve Lazoff
**Project:** Endolyne Garden Apartments
**Location:** Seattle, Washington.

**Farallon PN:** 1295-001

**Logged By:** Ken Scott

| | | | |
|---|---|---|---|
| **Date/Time Started:** | 10/10/2017 @ 1255 | **Sampler Type:** | 5-foot macrocore liner |
| **Date/Time Completed:** | 10/10/2017 @ 1355 | **Drive Hammer (lbs.):** | Autohammer |
| **Equipment:** | Geoprobe 7822DT | **Depth of Water ATD (ft bgs):** | 13.5 |
| **Drilling Company:** | Holocene Drilling | **Total Boring Depth (ft bgs):** | 20.0' |
| **Drilling Foreman:** | Mitch Mc Carlay | **Total Well Depth (ft bgs):** | 16.0 |
| **Drilling Method:** | Direct push | | |

| Depth (feet bgs.) | Lithologic Description | USCS | % Recovery | Blow Counts 8/8/8 | PID (ppm) | Sample ID | Sample Analyzed |
|---|---|---|---|---|---|---|---|
| 0 | 0.0-0.3': Organic (100% grass) Grass root rhizomes. Hand auger to 5-feet bgs to clear for utilities (Ok). | TOPSOIL | | | 0.0 | | |
| | 0.3-0.6': Sandy SILT with gravel Fill (50% silt, 35% sand, 15% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. | ML / SM | 100 | NA | 0.0 | | |
| | 0.6-2.7': Silty SAND Fill (80% sand, 20% silt,), fine to medium sand, tan, moist, no odor, no sheen. | SM | | | | | |
| 5 | 2.7-5.0': Silty SAND with gravel Fill (65% sand, 20% silt, 15% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. | SM | | | 2.7 | FMW6-5.0 @ 1215 | |
| | 5.0-5.6': Silty SAND with gravel (65% sand, 20% silt, 15% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. | ML | | | | | |
| | 5.6-7.9': SILT (100% silt), tan, moist, no odor, no sheen. | | 90 | NA | | | |
| | 7.9-9.2': Poorly graded SAND with silt (85% sand, 15% silt), fine sand, yellowish-brown, moist, no odor, no sheen. | SP-SM | | | 0.0 | FMW6-9.0 @ 1305 | |
| 10 | 9.2-10.0': No Recovery. | | | | | | |
| | 10.0-11.8': SILT (95% silt, 5% sand), fine sand, tan, moist, no odor, no sheen. | ML | | | 0.0 | | |
| | 11.8-13.7': Sandy SILT (65% silt, 35% sand), fine sand, gray, moist to slight wet at 13.5-feet bgs, no odor to slight odor from 12.5 to 13.5-feet bgs, no sheen. | ML | 100 | NA | 22.1 | FMW6-13.0 @ 1315 | X |
| | 13.7-15.0': SILT (100% silt), gray, slight wet, no odor, no sheen. | ML | | | | | |
| 15 | 15.0-15.8': Sandy SILT (60% silt, 40% sand), fine sand, gray, wet, no odor, no sheen. | ML | | | 0.0 | FMW6-15.0 @ 1335 | |
| | 15.8-20.0': SILT (100% silt), gray, moist, no odor, no sheen. | ML | 100 | NA | 0.0 | | |
| 20 | | | | | 0.0 | | |




## Well Construction Information

| | | | | | |
|---|---|---|---|---|---|
| **Monument Type:** | Flush Mount | **Filter Pack:** | Silica Sand 10/20 | **Ground Surface Elevation (ft):** | NA |
| **Casing Diameter (inches):** | 2.0" | **Surface Seal:** | Concrete | **Top of Casing Elevation (ft):** | NA |
| **Screen Slot Size (inches):** | 0.010 | **Annular Seal:** | Bentonite | **Surveyed Location:** | **X:** NA |
| **Screened Interval (ft bgs):** | 11' - 16' | **Boring Abandonment:** | NA | | **Y:** NA |

# Log of Boring: FMW-7



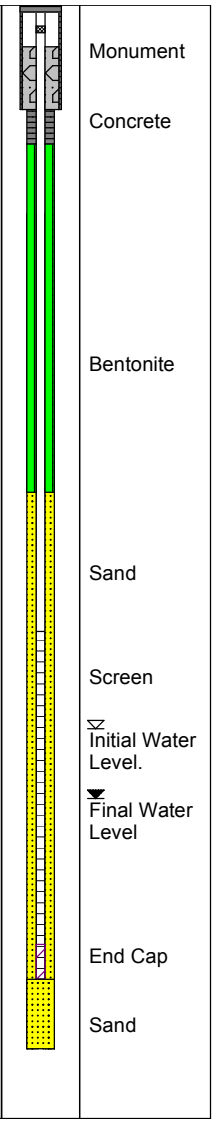
**Client:** Mr. Steve Lazoff
**Project:** Endolyne Garden Apartments
**Location:** Seattle, Washington.

**Farallon PN:** 1295-001

**Logged By:** Ken Scott

| | | | |
|---|---|---|---|
| **Date/Time Started:** | 4/10/2018 @ 0900 | **Sampler Type:** | 5-foot macrocore liner |
| **Date/Time Completed:** | 4/10/2018 @ 0950 | **Drive Hammer (lbs.):** | Autohammer |
| **Equipment:** | Geoprobe 7822DT | **Depth of Water ATD (ft bgs):** | ~10.40 |
| **Drilling Company:** | Holocene Drilling | **Total Boring Depth (ft bgs):** | 15.0' |
| **Drilling Foreman:** | Mitch Mc Carlay | **Total Well Depth (ft bgs):** | 14.0 |
| **Drilling Method:** | Direct push | | |

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | % Recovery | Blow Counts per 6 inches | PID (ppm) | Sample ID | Sample Analyzed |
|---|---|---|---|---|---|---|---|---|
| 0 | | 0.0-0.3': Organic (100% grass) Grass root rhizomes. Hand auger to 5-feet bgs to clear for utilities (Ok). | TOPSOIL | | | | | |
| | | 0.3-0.7': Sandy SILT with gravel Fill (50% silt, 35% sand, 15% gravel), fine to medium sand, fine gravel, brown, moist, no odor, no sheen. Grass root rhizomes. Subrounded gray gravel. | ML / SM | | | | | |
| | | 0.7-2.6': Silty SAND Fill (80% sand, 20% silt,), fine to medium sand, tan, moist, no odor, no sheen. | SM | 100 | NA | 0.0 | | |
| | | 2.6-5.0': Silty SAND with gravel Fill (65% sand, 20% silt, 15% gravel), fine to medium sand, fine to coarse gravel, brown, moist, no odor, no sheen. Subrounded gray gravel. | | | | | | |
| 5 | | 6.6-10.0': SILT (100% silt), tan, moist to slight wet at 10-feet bgs(capillary fringe), no odor, no sheen. Observed orange colored mottling between 9 to 10-feet bgs. | ML | 100 | NA | 0.0 | FMW5-5.0 @ 930 | |
| | | | | | | 0.0 | FMW5-9.0 @ 950 | X |
| 10 | | 10.0-13.2': SILT (100% silt), greenish, slight wet to wet at 10.40-feet bgs, slight odor at ~10-feet with no odor at 11-feet bgs, no sheen. Observe silt swollen from water between 11 to 13.1-feet bgs. | ML | 83 | NA | 0.0 | FMW5-11.5 @ 1000 | |
| | | 13.2-14.1': SILT (95% silt, 5% gravel), fine gravel, green, wet, no odor, no sheen. Subrounded gray gravel at 13.8-feet bgs. | ML | | | 0.0 | FMW5-14.0 @ 1010 | |
| | | 14.1-15.0': No Recovery. | | | | | | |
| 15 | | | | | | | | |




## Well Construction Information

| | | | | | |
|---|---|---|---|---|---|
| **Monument Type:** | Flush Mount | **Filter Pack:** | Silica Sand 10/20 | **Ground Surface Elevation (ft):** | NA |
| **Casing Diameter (inches):** | 2.0" | **Surface Seal:** | Concrete | **Top of Casing Elevation (ft):** | NA |
| **Screen Slot Size (inches):** | 0.010 | **Annular Seal:** | Bentonite | **Surveyed Location:** | **X:** NA |
| **Screened Interval (ft bgs):** | 9' - 14' | **Boring Abandonment:** | NA | | **Y:** NA |

# APPENDIX B
# LABORATORY ANALYTICAL REPORTS

MONITORING WELL INSTALLATION AND SAMPLING REPORT
Endolyne Garden Apartments
Seattle, Washington

Farallon PN: 1295-001

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 26, 2018

Lyndsey Needham
Farallon Consulting, LLC
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1804-218

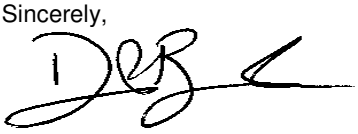
Dear Lyndsey:

Enclosed are the analytical results and associated quality control data for samples submitted on April 19, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**Case Narrative**

Samples were collected on April 18, 2018 and received by the laboratory on April 19, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-7-041818** | | | | | |
| Laboratory ID: | 04-218-01 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 4-19-18 | 4-19-18 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *91* | *66-114* | | | | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB0419W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 4-19-18 | 4-19-18 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 4-19-18 | 4-19-18 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *93* | *66-114* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 04-212-01 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *95* | *89* | *66-114* | | | |
| **MATRIX SPIKES** | | | | | | | | | | | |
| Laboratory ID: | 04-212-01 | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | |
| Benzene | **49.5** | **49.7** | 50.0 | 50.0 | ND | **99** | **99** | 80-120 | 0 | 13 | |
| Toluene | **49.8** | **50.0** | 50.0 | 50.0 | ND | **100** | **100** | 81-117 | 0 | 14 | |
| Ethyl Benzene | **50.6** | **50.6** | 50.0 | 50.0 | ND | **101** | **101** | 81-120 | 0 | 12 | |
| m,p-Xylene | **48.8** | **49.0** | 50.0 | 50.0 | ND | **98** | **98** | 79-122 | 0 | 13 | |
| o-Xylene | **48.2** | **48.7** | 50.0 | 50.0 | ND | **96** | **97** | 81-120 | 1 | 11 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *96* | *96* | *66-114* | | | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 04-218-01 | | | | | |
| **Client ID:** | **FMW-7-041818** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 4-23-18 | 4-23-18 | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 4-23-18 |
| Date Analyzed: | 4-23-18 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB0423WM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.1 |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 4-23-18
Date Analyzed: 4-23-18

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-230-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.1 | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Extracted: 4-23-18
Date Analyzed: 4-23-18

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-230-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 111 | **125** | 113 | **129** | 117 | 3 | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 04-218-01 | | | | | |
| **Client ID:** | **FMW-7-041818** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 4-23-18 | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

Date Analyzed: 4-23-18

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0423D1

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.0 |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Analyzed: 4-23-18

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-218-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.0 | |

Date of Report: April 26, 2018
Samples Submitted: April 19, 2018
Laboratory Reference: 1804-218
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Analyzed: 4-23-18

Matrix: Water
Units: ug/L (ppb)

Lab ID: 04-218-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 80.0 | **86.0** | 108 | **86.6** | 108 | 1 | |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1295-001
Project Name: Enloyne Garden Apts
Project Manager: Lyndsey Needham
Sampled By: Ken Scott

**Turnaround Request (in working days)**

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

**Laboratory Number:** 04-218

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | TOTAL LEAD EPA 6020A (200.8) DISSOLVED LEAD EPA 6020A (200.8) | | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW-7-041818 | 4/18/18 | 1252 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | Ken Scott | FARALLON | 4/18/18 | 1615 |
| Received | Katie Leer | OSE | 4/19/18 | 1130 |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**

The dissolved LEAD sample was field filtered.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 19, 2018

Lyndsey Needham
Farallon Consulting, LLC
1201 Cornwall Avenue, Suite 105
Bellingham, WA 98225

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1804-101

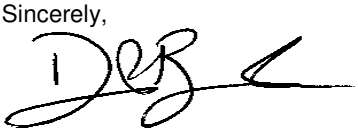
Dear Lyndsey:

Enclosed are the analytical results and associated quality control data for samples submitted on April 11, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**Case Narrative**

Samples were collected on April 10, 2018 and received by the laboratory on April 11, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW7-9.0** | | | | | |
| Laboratory ID: | 04-101-02 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 4-13-18 | 4-13-18 | |
| Toluene | **ND** | 0.075 | EPA 8021B | 4-13-18 | 4-13-18 | |
| Ethyl Benzene | **ND** | 0.075 | EPA 8021B | 4-13-18 | 4-13-18 | |
| m,p-Xylene | **ND** | 0.075 | EPA 8021B | 4-13-18 | 4-13-18 | |
| o-Xylene | **ND** | 0.075 | EPA 8021B | 4-13-18 | 4-13-18 | |
| Gasoline | **ND** | 7.5 | NWTPH-Gx | 4-13-18 | 4-13-18 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *95* | *66-130* | | | | |

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB0413S1 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 4-13-18 | 4-13-18 | |
| Toluene | **ND** | 0.050 | EPA 8021B | 4-13-18 | 4-13-18 | |
| Ethyl Benzene | **ND** | 0.050 | EPA 8021B | 4-13-18 | 4-13-18 | |
| m,p-Xylene | **ND** | 0.050 | EPA 8021B | 4-13-18 | 4-13-18 | |
| o-Xylene | **ND** | 0.050 | EPA 8021B | 4-13-18 | 4-13-18 | |
| Gasoline | **ND** | 5.0 | NWTPH-Gx | 4-13-18 | 4-13-18 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *94* | *66-130* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 04-101-02 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *95* | *97* | *66-130* | | | |
| **SPIKE BLANKS** | | | | | | | | | | | |
| Laboratory ID: | SB0413S1 | | | | | | | | | | |
| | SB | SBD | SB | SBD | | SB | SBD | | | | |
| Benzene | **0.945** | **0.896** | 1.00 | 1.00 | | **95** | **90** | 70-120 | 5 | 11 | |
| Toluene | **0.969** | **0.922** | 1.00 | 1.00 | | **97** | **92** | 73-121 | 5 | 14 | |
| Ethyl Benzene | **0.995** | **0.941** | 1.00 | 1.00 | | **100** | **94** | 74-121 | 6 | 11 | |
| m,p-Xylene | **1.00** | **0.955** | 1.00 | 1.00 | | **100** | **96** | 75-124 | 5 | 13 | |
| o-Xylene | **0.980** | **0.933** | 1.00 | 1.00 | | **98** | **93** | 75-121 | 5 | 12 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *92* | *88* | *66-130* | | | |

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**TOTAL LEAD**
**EPA 6010D**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 04-101-02 | | | | | |
| **Client ID:** | **FMW7-9.0** | | | | | |
| Lead | **6.8** | 6.3 | 6010D | 4-13-18 | 4-13-18 | |

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**TOTAL LEAD**
**EPA 6010D**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 4-13-18 |
| Date Analyzed: | 4-13-18 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0413SM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010D | **ND** | 5.0 |

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**TOTAL LEAD**
**EPA 6010D**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 4-13-18
Date Analyzed: 4-13-18

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-082-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 5.0 | |

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**TOTAL LEAD**
**EPA 6010D**
**MS/MSD QUALITY CONTROL**

Date Extracted: 4-13-18
Date Analyzed: 4-13-18

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 04-082-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 250 | **250** | 100 | **244** | 98 | 3 | |

Date of Report: April 19, 2018
Samples Submitted: April 11, 2018
Laboratory Reference: 1804-101
Project: 1295-001

**% MOISTURE**

Date Analyzed: 4-16-18

| Client ID | Lab ID | % Moisture |
|---|---|---|
| FMW7-9.0 | 04-101-02 | 21 |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1295-001
Project Name: ENdolyNe GArdeN Apts
Project Manager: LyNdsey NeedhAM
Sampled by: Ken Scott

**Turnaround Request (in working days)**
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

**Laboratory Number:** 04-101

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | Total Lead EPA 6020A/200.8 | | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW7-4.0 | 4/10/18 | 845 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FMW7-9.0 | | 915 | S | 2 | | X | | | | | | | | | | | | | | | | X | | | | X |
| 3 | FMW7-12.0 | | 930 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FMW7-14.0 | ↓ | 940 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | (X5) | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | Ken Scott | FARALLON | 4/10/18 | 1430 |
| Received | Kathleen Leeuw | OSE | 4/11/18 | 1130 |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**
Hold remaining samples.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 19, 2016

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1608-155

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on August 11, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**Case Narrative**

Samples were collected on August 10 and 11, 2016 and received by the laboratory on August 11, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-01-081016** | | | | | |
| Laboratory ID: | 08-155-01 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Gasoline | **150** | 100 | NWTPH-Gx | 8-18-16 | 8-18-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *101* | *71-111* | | | | |
| **Client ID:** | **FMW-02-081116** | | | | | |
| Laboratory ID: | 08-155-03 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 8-18-16 | 8-18-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *93* | *71-111* | | | | |
| **Client ID:** | **FMW-03-081016** | | | | | |
| Laboratory ID: | 08-155-04 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 8-18-16 | 8-18-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *92* | *71-111* | | | | |

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-04-081016** | | | | | |
| Laboratory ID: | 08-155-05 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 8-18-16 | 8-18-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *94* | *71-111* | | | | |

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB0818W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 8-18-16 | 8-18-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 8-18-16 | 8-18-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *100* | *71-111* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 08-155-05 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *94* | *94* | *71-111* | | | |
| **SPIKE BLANKS** | | | | | | | | | | | |
| Laboratory ID: | SB0818W1 | | | | | | | | | | |
| | SB | SBD | SB | SBD | | SB | SBD | | | | |
| Benzene | **49.0** | **46.1** | 50.0 | 50.0 | | **98** | **92** | 83-119 | 6 | 13 | |
| Toluene | **50.0** | **47.3** | 50.0 | 50.0 | | **100** | **95** | 83-120 | 6 | 13 | |
| Ethyl Benzene | **49.5** | **47.2** | 50.0 | 50.0 | | **99** | **94** | 82-120 | 5 | 12 | |
| m,p-Xylene | **49.6** | **47.1** | 50.0 | 50.0 | | **99** | **94** | 80-122 | 5 | 13 | |
| o-Xylene | **49.3** | **46.2** | 50.0 | 50.0 | | **99** | **92** | 80-120 | 6 | 10 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *110* | *99* | *71-111* | | | |

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 08-155-02 | | | | | |
| **Client ID:** | **FMW-01-081116** | | | | | |
| Lead | **49** | 1.1 | 200.8 | 8-13-16 | 8-15-16 | |
| Lab ID: | 08-155-04 | | | | | |
| **Client ID:** | **FMW-03-081016** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 8-13-16 | 8-15-16 | |
| Lab ID: | 08-155-05 | | | | | |
| **Client ID:** | **FMW-04-081016** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 8-13-16 | 8-15-16 | |

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 8-13-16 |
| Date Analyzed: | 8-13-16 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB0813WM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.1 |

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 8-13-16
Date Analyzed: 8-13-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-156-03

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.1 | |

Date of Report: August 19, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-155
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Extracted: 8-13-16
Date Analyzed: 8-13-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 08-156-03

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 222 | **218** | 98 | **211** | 95 | 3 | |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon
Project Number: 1295-001
Project Name: Endolyne Apts
Project Manager: Tad Cline
Sampled by: Jared Kerr & Anastasia Burns

**Turnaround Request (in working days)**

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

**Laboratory Number:** 08-155

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | Total lead EPA 6020/200.8 | | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW-01-081016 | 8/10/16 | 1535 | water | 3 | | X | | | | | | | | | | | | | | | | | | | | |
| 2 | FMW-01-081116 | 8/11/16 | 0900 | | 1 | | | | | | | | | | | | | | | | | | X | | | | |
| 3 | FMW-02-081116 | 8/11/16 | 0910 | | 2 | | X | | | | | | | | | | | | | | | | | | | | |
| 4 | FMW-03-081016 | 8/10/16 | 1215 | | 4 | | X | | | | | | | | | | | | | | | | X | | | | |
| 5 | FMW-04-081016 | 8/10/16 | 1055 | | 4 | | X | | | | | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | | Farallon | 8/11/16 | 1215 |
| Received | | Onsite | 8-11-16 | 1215 |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**

~~Pb sample was not been filtered, please filter ASAP.~~

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 11, 2016

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1608-062

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on August 4, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**Case Narrative**

Samples were collected on August 3, 2016 and received by the laboratory on August 4, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW4-5.0** | | | | | |
| Laboratory ID: | 08-062-02 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Toluene | **ND** | 0.065 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Ethyl Benzene | **ND** | 0.065 | EPA 8021B | 8-10-16 | 8-10-16 | |
| m,p-Xylene | **ND** | 0.065 | EPA 8021B | 8-10-16 | 8-10-16 | |
| o-Xylene | **ND** | 0.065 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Gasoline | **ND** | 6.5 | NWTPH-Gx | 8-10-16 | 8-10-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *84* | *68-129* | | | | |
| **Client ID:** | **FMW4-10.0** | | | | | |
| Laboratory ID: | 08-062-03 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Toluene | **ND** | 0.058 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Ethyl Benzene | **ND** | 0.058 | EPA 8021B | 8-10-16 | 8-10-16 | |
| m,p-Xylene | **ND** | 0.058 | EPA 8021B | 8-10-16 | 8-10-16 | |
| o-Xylene | **ND** | 0.058 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Gasoline | **ND** | 5.8 | NWTPH-Gx | 8-10-16 | 8-10-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *92* | *68-129* | | | | |
| **Client ID:** | **FMW4-15.0** | | | | | |
| Laboratory ID: | 08-062-04 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Toluene | **ND** | 0.073 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Ethyl Benzene | **ND** | 0.073 | EPA 8021B | 8-10-16 | 8-10-16 | |
| m,p-Xylene | **ND** | 0.073 | EPA 8021B | 8-10-16 | 8-10-16 | |
| o-Xylene | **ND** | 0.073 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Gasoline | **ND** | 7.3 | NWTPH-Gx | 8-10-16 | 8-10-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *101* | *68-129* | | | | |

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB0810S2 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Toluene | **ND** | 0.050 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Ethyl Benzene | **ND** | 0.050 | EPA 8021B | 8-10-16 | 8-10-16 | |
| m,p-Xylene | **ND** | 0.050 | EPA 8021B | 8-10-16 | 8-10-16 | |
| o-Xylene | **ND** | 0.050 | EPA 8021B | 8-10-16 | 8-10-16 | |
| Gasoline | **ND** | 5.0 | NWTPH-Gx | 8-10-16 | 8-10-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *93* | *68-129* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 08-134-01 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *92* | *92* | *68-129* | | | |
| **SPIKE BLANKS** | | | | | | | | | | | |
| Laboratory ID: | SB0810S1 | | | | | | | | | | |
| | SB | SBD | SB | SBD | | SB | SBD | | | | |
| Benzene | **0.951** | **1.02** | 1.00 | 1.00 | | **95** | **102** | 76-124 | 7 | 17 | |
| Toluene | **0.960** | **0.976** | 1.00 | 1.00 | | **96** | **98** | 78-124 | 2 | 16 | |
| Ethyl Benzene | **0.958** | **0.996** | 1.00 | 1.00 | | **96** | **100** | 77-123 | 4 | 17 | |
| m,p-Xylene | **0.995** | **1.00** | 1.00 | 1.00 | | **100** | **100** | 78-124 | 1 | 17 | |
| o-Xylene | **0.970** | **0.989** | 1.00 | 1.00 | | **97** | **99** | 76-123 | 2 | 18 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *90* | *94* | *68-129* | | | |

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**TOTAL LEAD**
**EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 08-062-03 | | | | | |
| **Client ID:** | **FMW4-10.0** | | | | | |
| Lead | **ND** | 5.7 | 6010C | 8-5-16 | 8-5-16 | |

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**TOTAL LEAD**
**EPA 6010C**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 8-5-16 |
| Date Analyzed: | 8-5-16 |
| Matrix: | Soil |
| Units: | mg/kg (ppm) |
| Lab ID: | MB0805SM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 6010C | **ND** | 5.0 |

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**TOTAL LEAD**
**EPA 6010C**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 8-5-16
Date Analyzed: 8-5-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-070-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 5.0 | |

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**TOTAL LEAD**
**EPA 6010C**
**MS/MSD QUALITY CONTROL**

Date Extracted: 8-5-16
Date Analyzed: 8-5-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-070-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 250 | **237** | 95 | **235** | 94 | 1 | |

Date of Report: August 11, 2016
Samples Submitted: August 4, 2016
Laboratory Reference: 1608-062
Project: 1295-001

**% MOISTURE**

Date Analyzed: 8-5-16

| Client ID | Lab ID | % Moisture |
|---|---|---|
| FMW4-5.0 | 08-062-02 | 14 |
| FMW4-10.0 | 08-062-03 | 13 |
| FMW4-15.0 | 08-062-04 | 24 |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1295-001
Project Name: ENDOLYNE APARTMENTS
Project Manager: TAD CLINE
Sampled by: Ken Smith

**Turnaround Request (in working days)**

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

**Laboratory Number:** 08-062

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx | Volatiles 8260C | Halogenated Volatiles 8260C | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | Total Lead | | | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW4-2.5 | 8/3/16 | 845 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FMW4-5.0 | | 900 | S | 2 | | X | | | | | | | | | | | | | | | | | | | | X |
| 3 | FMW4-10.0 | | 945 | S | 2 | | X | | | | | | | | | | | | | | | X | | | | | X |
| 4 | FMW4-15.0 | | 1045 | S | 2 | | X | | | | | | | | | | | | | | | | | | | | X |

KS

| | Signature | Company | Date | Time | Comments/Special Instructions |
|---|---|---|---|---|---|
| Relinquished | Ken Smith | FARALLON | 8/3/16 | 1700 | ~~Hold SAMPLES, TAD CLINE will call~~ ANALYSIS. |
| Received | | ONE | 8/4/16 | 1130 | |
| Relinquished | | | | | |
| Received | | | | | |
| Relinquished | | | | | |
| Received | | | | | |
| Reviewed/Date | | Reviewed/Date | | | Chromatograms with final report ☐ |

Data Package: Standard ☐ Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 6, 2017

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1702-229

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on February 24, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**Case Narrative**

Samples were collected on February 23, 2017 and received by the laboratory on February 24, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-2-022317** | | | | | |
| Laboratory ID: | 02-229-01 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 2-28-17 | 2-28-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *94* | *61-118* | | | | |
| **Client ID:** | **FMW-3-022317** | | | | | |
| Laboratory ID: | 02-229-02 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 2-28-17 | 2-28-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *92* | *61-118* | | | | |
| **Client ID:** | **FMW-1-022317** | | | | | |
| Laboratory ID: | 02-229-03 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Gasoline | **210** | 100 | NWTPH-Gx | 2-28-17 | 2-28-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *93* | *61-118* | | | | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-4-022317** | | | | | |
| Laboratory ID: | 02-229-04 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 2-28-17 | 2-28-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *93* | *61-118* | | | | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB0228W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 2-28-17 | 2-28-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 2-28-17 | 2-28-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *92* | *61-118* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 02-229-01 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *94* | *94* | *61-118* | | | |
| **MATRIX SPIKES** | | | | | | | | | | | |
| Laboratory ID: | 02-229-01 | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | |
| Benzene | **45.2** | **49.4** | 50.0 | 50.0 | ND | **90** | **99** | 80-120 | 9 | 13 | |
| Toluene | **46.1** | **50.3** | 50.0 | 50.0 | ND | **92** | **101** | 81-115 | 9 | 14 | |
| Ethyl Benzene | **46.9** | **51.0** | 50.0 | 50.0 | ND | **94** | **102** | 81-114 | 8 | 12 | |
| m,p-Xylene | **46.0** | **50.3** | 50.0 | 50.0 | ND | **92** | **101** | 81-114 | 9 | 13 | |
| o-Xylene | **46.3** | **50.5** | 50.0 | 50.0 | ND | **93** | **101** | 81-113 | 9 | 11 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *96* | *95* | *61-118* | | | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 02-229-01 | | | | | |
| **Client ID:** | **FMW-2-022317** | | | | | |
| Lead | **84** | 1.1 | 200.8 | 3-1-17 | 3-1-17 | |
| Lab ID: | 02-229-02 | | | | | |
| **Client ID:** | **FMW-3-022317** | | | | | |
| Lead | **3.5** | 1.1 | 200.8 | 3-1-17 | 3-1-17 | |
| Lab ID: | 02-229-03 | | | | | |
| **Client ID:** | **FMW-1-022317** | | | | | |
| Lead | **17** | 1.1 | 200.8 | 3-1-17 | 3-1-17 | |
| Lab ID: | 02-229-04 | | | | | |
| **Client ID:** | **FMW-4-022317** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 3-1-17 | 3-1-17 | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 3-1-17 |
| Date Analyzed: | 3-1-17 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB0301WM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.1 |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 3-1-17
Date Analyzed: 3-1-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 02-233-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **1.14** | NA | 1.1 | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Extracted: 3-1-17
Date Analyzed: 3-1-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 02-233-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 222 | **235** | 106 | **228** | 103 | 3 | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 02-229-01 | | | | | |
| **Client ID:** | **FMW-2-022317** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 2-28-17 | 2-28-17 | |
| Lab ID: | 02-229-02 | | | | | |
| **Client ID:** | **FMW-3-022317** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 2-28-17 | 2-28-17 | |
| Lab ID: | 02-229-03 | | | | | |
| **Client ID:** | **FMW-1-022317** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 2-28-17 | 2-28-17 | |
| Lab ID: | 02-229-04 | | | | | |
| **Client ID:** | **FMW-4-022317** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 2-28-17 | 2-28-17 | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Filtered: | 2-28-17 |
| Date Analyzed: | 2-28-17 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB0228F1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.0 |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Filtered: 2-28-17
Date Analyzed: 2-28-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 02-229-04

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.0 | |

Date of Report: March 6, 2017
Samples Submitted: February 24, 2017
Laboratory Reference: 1702-229
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Filtered: 2-28-17
Date Analyzed: 2-28-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 02-229-04

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 200 | **193** | 96 | **201** | 100 | 4 | |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1295-001
Project Name: Endolyne Garden Apts
Project Manager: TAO CLINE
Sampled by: Kim Smith

**Turnaround Request (in working days)**

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

**Laboratory Number:** 02-229

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | Total Lead | Dissolved Lead | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW-2-022317 | 2/23/17 | 1240 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 2 | FMW-3-022317 | | 1310 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 3 | FMW-1-022317 | | 1338 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 4 | FMW-4-022317 | ↓ | 1405 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | Kim Smith | FARALLON | 2/23/17 | 1630 |
| Received | | ODE | 2/24/17 | 1200 |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**

The unpreserved polys were filtered @ 0.45 micron filter in field. Please preserve @ Nitric Acid.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 26, 2017

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1705-250

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**Case Narrative**

Samples were collected on May 18, 2017 and received by the laboratory on May 19, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-2-051817** | | | | | |
| Laboratory ID: | 05-250-01 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 5-25-17 | 5-25-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *97* | *61-118* | | | | |
| **Client ID:** | **FMW-3-051817** | | | | | |
| Laboratory ID: | 05-250-02 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 5-25-17 | 5-25-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *95* | *61-118* | | | | |
| **Client ID:** | **FMW-1-051817** | | | | | |
| Laboratory ID: | 05-250-03 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Gasoline | **150** | 100 | NWTPH-Gx | 5-25-17 | 5-25-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *102* | *61-118* | | | | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-4-051817** | | | | | |
| Laboratory ID: | 05-250-04 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 5-25-17 | 5-25-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *98* | *61-118* | | | | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB0525W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 5-25-17 | 5-25-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 5-25-17 | 5-25-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *97* | *61-118* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 05-250-01 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *97* | *97* | *61-118* | | | |
| **MATRIX SPIKES** | | | | | | | | | | | |
| Laboratory ID: | 05-250-01 | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | |
| Benzene | **45.6** | **45.6** | 50.0 | 50.0 | ND | **91** | **91** | 80-120 | 0 | 13 | |
| Toluene | **46.7** | **46.6** | 50.0 | 50.0 | ND | **93** | **93** | 81-115 | 0 | 14 | |
| Ethyl Benzene | **47.9** | **47.8** | 50.0 | 50.0 | ND | **96** | **96** | 81-114 | 0 | 12 | |
| m,p-Xylene | **47.4** | **47.2** | 50.0 | 50.0 | ND | **95** | **94** | 81-114 | 0 | 13 | |
| o-Xylene | **47.5** | **47.4** | 50.0 | 50.0 | ND | **95** | **95** | 81-113 | 0 | 11 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *92* | *92* | *61-118* | | | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 05-250-01 | | | | | |
| **Client ID:** | **FMW-2-051817** | | | | | |
| Lead | **14** | 1.0 | 200.8 | 5-24-17 | 5-24-17 | |
| Lab ID: | 05-250-02 | | | | | |
| **Client ID:** | **FMW-3-051817** | | | | | |
| Lead | **56** | 1.0 | 200.8 | 5-24-17 | 5-24-17 | |
| Lab ID: | 05-250-03 | | | | | |
| **Client ID:** | **FMW-1-051817** | | | | | |
| Lead | **42** | 1.0 | 200.8 | 5-24-17 | 5-24-17 | |
| Lab ID: | 05-250-04 | | | | | |
| **Client ID:** | **FMW-4-051817** | | | | | |
| Lead | **1.9** | 1.0 | 200.8 | 5-24-17 | 5-24-17 | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 5-24-17 |
| Date Analyzed: | 5-24-17 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB0524WH1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.0 |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 5-24-17
Date Analyzed: 5-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-205-07

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.0 | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Extracted: 5-24-17
Date Analyzed: 5-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-205-07

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 100 | **108** | 108 | **106** | 106 | 2 | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 05-250-01 | | | | | |
| **Client ID:** | **FMW-2-051817** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 5-24-17 | |
| Lab ID: | 05-250-02 | | | | | |
| **Client ID:** | **FMW-3-051817** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 5-24-17 | |
| Lab ID: | 05-250-03 | | | | | |
| **Client ID:** | **FMW-1-051817** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 5-24-17 | |
| Lab ID: | 05-250-04 | | | | | |
| **Client ID:** | **FMW-4-051817** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 5-24-17 | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Analyzed: | 5-24-17 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB0519F1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.0 |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Analyzed: 5-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-250-04

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.0 | |

Date of Report: May 26, 2017
Samples Submitted: May 19, 2017
Laboratory Reference: 1705-250
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Analyzed: 5-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 05-250-04

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 80.0 | **77.8** | 97 | **79.2** | 99 | 2 | |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1295-001
Project Name: Endolyne Garden Apts
Project Manager: TAD CLINE
Sampled by: Ken Scott

**Turnaround Request (in working days)**
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

**Laboratory Number:** 05-250

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | Total LEAD | Dissolved LEAD | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW-2-051817 | 5/18/17 | 1056 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 2 | FMW-3-051817 | | 1128 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 3 | FMW-1-051817 | | 1155 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 4 | FMW-4-051817 | | 1240 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | Ken Scott | FARALLON | 5/18/17 | 1715 |
| Received | Van | Spdy | 5/19/17 | 1000 |
| Relinquished | Van | Spdy | 5/19/17 | 1100 |
| Received | [signature] | GSE | 5.19.17 | 11:00A |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**
Dissolved Lead samples filtered in field. Put D on top of dissolved Poly, & T on top of Total Lead samples.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 22, 2016

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1611-159

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on November 15, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**Case Narrative**

Samples were collected on November 15, 2016 and received by the laboratory on November 15, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-1-111516** | | | | | |
| Laboratory ID: | 11-159-01 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Gasoline | **110** | 100 | NWTPH-Gx | 11-17-16 | 11-17-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *102* | *61-118* | | | | |
| **Client ID:** | **FMW-2-111516** | | | | | |
| Laboratory ID: | 11-159-02 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 11-17-16 | 11-17-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *104* | *61-118* | | | | |
| **Client ID:** | **FMW-3-111516** | | | | | |
| Laboratory ID: | 11-159-03 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 11-17-16 | 11-17-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *103* | *61-118* | | | | |

Date of Report: November 22, 2016
Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-4-111516** | | | | | |
| Laboratory ID: | 11-159-04 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 11-17-16 | 11-17-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *103* | *61-118* | | | | |

Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB1117W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 11-17-16 | 11-17-16 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 11-17-16 | 11-17-16 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *101* | *61-118* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 11-159-01 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **114** | **105** | NA | NA | | NA | | NA | 8 | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *102* | *101* | *61-118* | | | |
| **MATRIX SPIKES** | | | | | | | | | | | |
| Laboratory ID: | 11-159-01 | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | |
| Benzene | **52.6** | **51.7** | 50.0 | 50.0 | ND | **105** | **103** | 80-120 | 2 | 13 | |
| Toluene | **51.9** | **50.9** | 50.0 | 50.0 | ND | **104** | **102** | 81-115 | 2 | 14 | |
| Ethyl Benzene | **52.7** | **51.8** | 50.0 | 50.0 | ND | **105** | **104** | 81-114 | 2 | 12 | |
| m,p-Xylene | **52.6** | **51.8** | 50.0 | 50.0 | ND | **105** | **104** | 81-114 | 2 | 13 | |
| o-Xylene | **51.5** | **50.9** | 50.0 | 50.0 | ND | **103** | **102** | 81-113 | 1 | 11 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *104* | *103* | *61-118* | | | |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 11-159-01 | | | | | |
| **Client ID:** | **FMW-1-111516** | | | | | |
| Lead | **26** | 1.1 | 200.8 | 11-17-16 | 11-17-16 | |
| Lab ID: | 11-159-02 | | | | | |
| **Client ID:** | **FMW-2-111516** | | | | | |
| Lead | **9.1** | 1.1 | 200.8 | 11-17-16 | 11-17-16 | |
| Lab ID: | 11-159-03 | | | | | |
| **Client ID:** | **FMW-3-111516** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 11-17-16 | 11-17-16 | |
| Lab ID: | 11-159-04 | | | | | |
| **Client ID:** | **FMW-4-111516** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 11-17-16 | 11-17-16 | |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 11-17-16 |
| Date Analyzed: | 11-17-16 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB1117WM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.1 |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 11-17-16
Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-130-08

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.1 | |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Extracted: 11-17-16
Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-130-08

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 222 | **198** | 89 | **194** | 87 | 2 | |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 11-159-01 | | | | | |
| **Client ID:** | **FMW-1-111516** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 11-15-16 | 11-17-16 | |
| Lab ID: | 11-159-02 | | | | | |
| **Client ID:** | **FMW-2-111516** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 11-15-16 | 11-17-16 | |
| Lab ID: | 11-159-03 | | | | | |
| **Client ID:** | **FMW-3-111516** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 11-15-16 | 11-17-16 | |
| Lab ID: | 11-159-04 | | | | | |
| **Client ID:** | **FMW-4-111516** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | 11-15-16 | 11-17-16 | |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1115F1

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.0 |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-130-08

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.0 | |

Date of Report: November 22, 2016
Samples Submitted: November 15, 2016
Laboratory Reference: 1611-159
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Analyzed: 11-17-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: 11-130-08

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 200 | **185** | 93 | **183** | 91 | 2 | |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com



Company: Farallon
Project Number: 1295-001
Project Name: Endolyne Garden Apartments
Project Manager: Tad Cline
Sampled by: A. Burns

**Turnaround Request (in working days)**
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

**Laboratory Number:** 11-159

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | GRO/BTEX by EPA 8021B | Total Lead by 6020A | Dissolved Lead by 200.8 | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW-1-111516 | 11-15-16 | 9:25 | Water | 5 | | | | | | | | | | | | | | | | | | X | X | X | | |
| 2 | FMW-2-111516 | | 9:40 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FMW-3-111516 | | 10:55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FMW-4-111516 | | 11:55 | | | | | | | | | | | | | | | | | | | | | | | | |

AB

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | A. Burns | Farallon | 11-15-16 | 14:03 |
| Received | | | 11/15/16 | 1438 |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**
Please filter dissolved sample ASAP.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 27, 2017

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1710-278

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on October 20, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**Case Narrative**

Samples were collected on October 19, 2017 and received by the laboratory on October 20, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-2-101917** | | | | | |
| Laboratory ID: | 10-278-01 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 10-23-17 | 10-23-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *101* | *66-114* | | | | |
| **Client ID:** | **FMW-3-101917** | | | | | |
| Laboratory ID: | 10-278-02 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 10-23-17 | 10-23-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *82* | *66-114* | | | | |
| **Client ID:** | **FMW-6-101917** | | | | | |
| Laboratory ID: | 10-278-03 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Gasoline | **130** | 100 | NWTPH-Gx | 10-23-17 | 10-23-17 | O |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *100* | *66-114* | | | | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW-1-101917** | | | | | |
| Laboratory ID: | 10-278-04 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 10-23-17 | 10-23-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *83* | *66-114* | | | | |
| **Client ID:** | **FMW-4-101917** | | | | | |
| Laboratory ID: | 10-278-05 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-23-17 | 10-23-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 10-23-17 | 10-23-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *97* | *66-114* | | | | |
| **Client ID:** | **FMW-5-101917** | | | | | |
| Laboratory ID: | 10-278-06 | | | | | |
| Benzene | **ND** | 4.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Toluene | **ND** | 4.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Ethyl Benzene | **6.6** | 4.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| m,p-Xylene | **13** | 4.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| o-Xylene | **4.9** | 4.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Gasoline | **4100** | 400 | NWTPH-Gx | 10-24-17 | 10-24-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *85* | *66-114* | | | | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB1024W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 10-24-17 | 10-24-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *100* | *66-114* | | | | |
| Laboratory ID: | MB1024W1 | | | | | |
| Benzene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Toluene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Ethyl Benzene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| m,p-Xylene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| o-Xylene | **ND** | 1.0 | EPA 8021B | 10-24-17 | 10-24-17 | |
| Gasoline | **ND** | 100 | NWTPH-Gx | 10-24-17 | 10-24-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *100* | *66-114* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 10-272-02 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *98* | *97* | *66-114* | | | |
| **MATRIX SPIKES** | | | | | | | | | | | |
| Laboratory ID: | 10-272-01 | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | |
| Benzene | **50.4** | **46.4** | 50.0 | 50.0 | ND | **101** | **93** | 80-120 | 8 | 13 | |
| Toluene | **50.5** | **46.4** | 50.0 | 50.0 | ND | **101** | **93** | 81-117 | 8 | 14 | |
| Ethyl Benzene | **50.9** | **46.8** | 50.0 | 50.0 | ND | **102** | **94** | 81-120 | 8 | 12 | |
| m,p-Xylene | **49.9** | **45.9** | 50.0 | 50.0 | ND | **100** | **92** | 79-122 | 8 | 13 | |
| o-Xylene | **49.2** | **45.4** | 50.0 | 50.0 | ND | **98** | **91** | 81-120 | 8 | 11 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *96* | *87* | *66-114* | | | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 10-278-01 | | | | | |
| **Client ID:** | **FMW-2-101917** | | | | | |
| Lead | **6.2** | 1.1 | 200.8 | 10-27-17 | 10-27-17 | |
| Lab ID: | 10-278-02 | | | | | |
| **Client ID:** | **FMW-3-101917** | | | | | |
| Lead | **4.6** | 1.1 | 200.8 | 10-27-17 | 10-27-17 | |
| Lab ID: | 10-278-03 | | | | | |
| **Client ID:** | **FMW-6-101917** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 10-27-17 | 10-27-17 | |
| Lab ID: | 10-278-04 | | | | | |
| **Client ID:** | **FMW-1-101917** | | | | | |
| Lead | **6.2** | 1.1 | 200.8 | 10-27-17 | 10-27-17 | |
| Lab ID: | 10-278-05 | | | | | |
| **Client ID:** | **FMW-4-101917** | | | | | |
| Lead | **ND** | 1.1 | 200.8 | 10-27-17 | 10-27-17 | |
| Lab ID: | 10-278-06 | | | | | |
| **Client ID:** | **FMW-5-101917** | | | | | |
| Lead | **4.9** | 1.1 | 200.8 | 10-27-17 | 10-27-17 | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

| | |
|---|---|
| Date Extracted: | 10-27-17 |
| Date Analyzed: | 10-27-17 |
| Matrix: | Water |
| Units: | ug/L (ppb) |
| Lab ID: | MB1027WM1 |

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.1 |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Extracted: 10-27-17
Date Analyzed: 10-27-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-249-05

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **ND** | **ND** | NA | 1.1 | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**TOTAL LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-27-17
Date Analyzed: 10-27-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-249-05

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 222 | **216** | 97 | **225** | 101 | 4 | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | EPA Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| Lab ID: | 10-278-01 | | | | | |
| **Client ID:** | **FMW-2-101917** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 10-24-17 | |
| Lab ID: | 10-278-02 | | | | | |
| **Client ID:** | **FMW-3-101917** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 10-24-17 | |
| Lab ID: | 10-278-03 | | | | | |
| **Client ID:** | **FMW-6-101917** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 10-24-17 | |
| Lab ID: | 10-278-04 | | | | | |
| **Client ID:** | **FMW-1-101917** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 10-24-17 | |
| Lab ID: | 10-278-05 | | | | | |
| **Client ID:** | **FMW-4-101917** | | | | | |
| Lead | **ND** | 1.0 | 200.8 | | 10-24-17 | |
| Lab ID: | 10-278-06 | | | | | |
| **Client ID:** | **FMW-5-101917** | | | | | |
| Lead | **3.5** | 1.0 | 200.8 | | 10-24-17 | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**METHOD BLANK QUALITY CONTROL**

Date Analyzed: 10-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1024D1

| Analyte | Method | Result | PQL |
|---|---|---|---|
| Lead | 200.8 | **ND** | 1.0 |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**DUPLICATE QUALITY CONTROL**

Date Analyzed: 10-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-265-01

| Analyte | Sample Result | Duplicate Result | RPD | PQL | Flags |
|---|---|---|---|---|---|
| Lead | **1.09** | **ND** | NA | 1.0 | |

Date of Report: October 27, 2017
Samples Submitted: October 20, 2017
Laboratory Reference: 1710-278
Project: 1295-001

**DISSOLVED LEAD**
**EPA 200.8**
**MS/MSD QUALITY CONTROL**

Date Analyzed: 10-24-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 10-265-01

| Analyte | Spike Level | MS | Percent Recovery | MSD | Percent Recovery | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Lead | 200 | **185** | 92 | **183** | 91 | 1 | |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

**Laboratory Number:** 10-278

Company: FARALLON
Project Number: 1295-001
Project Name: ENDOLYNE GARDEN APTS
Project Manager: TAD CLINE
Sampled by: Ken Scott

**Turnaround Request (in working days)**
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | TOTAL LEAD | DISSOLVED LEAD | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW-2-101917 | 10/19/17 | 1035 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 2 | FMW-3-101917 | | 1113 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 3 | FMW-6-101917 | | 1158 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 4 | FMW-1-101917 | | 1235 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 5 | FMW-4-101917 | | 1330 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |
| 6 | FMW-5-101917 | | 1405 | W | 5 | | X | | | | | | | | | | | | | | | | X | X | | | |

(X5)

| | Signature | Company | Date | Time |
|---|---|---|---|---|
| Relinquished | Ken Scott | FARALLON | 10/19/17 | 1700 |
| Received | | Onsite | 10-20-17 | ~~1700~~ 1330 |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Reviewed/Date | | Reviewed/Date | | |

**Comments/Special Instructions**
Dissolved LEAD SAMPLES All field filtered. Put T-ontop of total lead poly's, + Put-D ontop of dissolved LEAD poly's-

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 18, 2017

Tad Cline
Farallon Consulting, LLC
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1295-001
Laboratory Reference No. 1710-139

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on October 11, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: October 18, 2017
Samples Submitted: October 11, 2017
Laboratory Reference: 1710-139
Project: 1295-001

**Case Narrative**

Samples were collected on October 10, 2017 and received by the laboratory on October 11, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 18, 2017
Samples Submitted: October 11, 2017
Laboratory Reference: 1710-139
Project: 1295-001

**NWTPH-Gx/BTEX**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **Client ID:** | **FMW5-11.5** | | | | | |
| Laboratory ID: | 10-139-03 | | | | | |
| Benzene | **0.043** | 0.030 | EPA 8021B | 10-16-17 | 10-17-17 | |
| Toluene | **ND** | 0.15 | EPA 8021B | 10-16-17 | 10-17-17 | |
| Ethyl Benzene | **ND** | 0.75 | EPA 8021B | 10-16-17 | 10-17-17 | U1 |
| m,p-Xylene | **0.45** | 0.15 | EPA 8021B | 10-16-17 | 10-17-17 | |
| o-Xylene | **ND** | 0.15 | EPA 8021B | 10-16-17 | 10-17-17 | |
| Gasoline | **130** | 15 | NWTPH-Gx | 10-16-17 | 10-17-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *86* | *66-130* | | | | |
| **Client ID:** | **FMW6-13.0** | | | | | |
| Laboratory ID: | 10-139-07 | | | | | |
| Benzene | **0.036** | 0.023 | EPA 8021B | 10-16-17 | 10-17-17 | |
| Toluene | **ND** | 0.11 | EPA 8021B | 10-16-17 | 10-17-17 | |
| Ethyl Benzene | **0.24** | 0.11 | EPA 8021B | 10-16-17 | 10-17-17 | |
| m,p-Xylene | **0.32** | 0.11 | EPA 8021B | 10-16-17 | 10-17-17 | |
| o-Xylene | **ND** | 0.11 | EPA 8021B | 10-16-17 | 10-17-17 | |
| Gasoline | **93** | 11 | NWTPH-Gx | 10-16-17 | 10-17-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *88* | *66-130* | | | | |

Date of Report: October 18, 2017
Samples Submitted: October 11, 2017
Laboratory Reference: 1710-139
Project: 1295-001

**NWTPH-Gx/BTEX**
**QUALITY CONTROL**

Matrix: Soil
Units: mg/kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|---|---|---|---|---|---|
| **METHOD BLANK** | | | | | | |
| Laboratory ID: | MB1016S1 | | | | | |
| Benzene | **ND** | 0.020 | EPA 8021B | 10-16-17 | 10-16-17 | |
| Toluene | **ND** | 0.050 | EPA 8021B | 10-16-17 | 10-16-17 | |
| Ethyl Benzene | **ND** | 0.050 | EPA 8021B | 10-16-17 | 10-16-17 | |
| m,p-Xylene | **ND** | 0.050 | EPA 8021B | 10-16-17 | 10-16-17 | |
| o-Xylene | **ND** | 0.050 | EPA 8021B | 10-16-17 | 10-16-17 | |
| Gasoline | **ND** | 5.0 | NWTPH-Gx | 10-16-17 | 10-16-17 | |
| *Surrogate:* | *Percent Recovery* | *Control Limits* | | | | |
| *Fluorobenzene* | *89* | *66-130* | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **DUPLICATE** | | | | | | | | | | | |
| Laboratory ID: | 10-146-05 | | | | | | | | | | |
| | ORIG | DUP | | | | | | | | | |
| Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Toluene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Ethyl Benzene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| m,p-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| o-Xylene | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| Gasoline | **ND** | **ND** | NA | NA | | NA | | NA | NA | 30 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *95* | *93* | *66-130* | | | |
| **SPIKE BLANKS** | | | | | | | | | | | |
| Laboratory ID: | SB1016S1 | | | | | | | | | | |
| | SB | SBD | SB | SBD | | SB | SBD | | | | |
| Benzene | **0.978** | **0.923** | 1.00 | 1.00 | | **98** | **92** | 70-120 | 6 | 11 | |
| Toluene | **0.992** | **0.931** | 1.00 | 1.00 | | **99** | **93** | 73-121 | 6 | 14 | |
| Ethyl Benzene | **1.00** | **0.938** | 1.00 | 1.00 | | **100** | **94** | 74-121 | 6 | 11 | |
| m,p-Xylene | **0.995** | **0.929** | 1.00 | 1.00 | | **100** | **93** | 75-124 | 7 | 13 | |
| o-Xylene | **0.983** | **0.924** | 1.00 | 1.00 | | **98** | **92** | 75-121 | 6 | 12 | |
| *Surrogate:* | | | | | | | | | | | |
| *Fluorobenzene* | | | | | | *95* | *88* | *66-130* | | | |

Date of Report: October 18, 2017
Samples Submitted: October 11, 2017
Laboratory Reference: 1710-139
Project: 1295-001

**% MOISTURE**

Date Analyzed: 10-16-17

| Client ID | Lab ID | % Moisture |
|---|---|---|
| FMW5-11.5 | 10-139-03 | 23 |
| FMW6-13.0 | 10-139-07 | 12 |

OnSite Environmental Inc.

**Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

# Chain of Custody

Page 1 of 1

**OnSite Environmental Inc.**
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 1295-001
Project Name: Endolyne Garden Apts
Project Manager: TAD CLINE
Sampled by: Ken Scott

**Turnaround Request (in working days)**
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

**Laboratory Number:** 10-139

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX 8021B | NWTPH-Gx | NWTPH-Dx (☐ Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | | | | | % Moisture |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FMW 5-5.0 | 10/10/17 | 930 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FMW 5-9.0 | | 950 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FMW 5-11.5 | | 1000 | S | 2 | | X | | | | | | | | | | | | | | | | | | | | X |
| 4 | FMW 5-14.0 | | 1010 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | FMW 6-5.0 | | 1215 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | FMW 6-9.0 | | 1305 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | FMW 6-13.0 | | 1315 | S | 2 | | X | | | | | | | | | | | | | | | | | | | | X |
| 8 | FMW 6-15.0 | | 1335 | S | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 125 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Signature | Company | Date | Time | Comments/Special Instructions |
|---|---|---|---|---|---|
| Relinquished | Ken Scott | FARALLON | 10/10/17 | 1730 | Hold remaining samples. |
| Received | | | 10/11/17 | 1130 | |
| Relinquished | | | | | |
| Received | | | | | |
| Relinquished | | | | | |
| Received | | | | | Data Package: Standard ☐ Level III ☐ Level IV ☐ |
| Reviewed/Date | | Reviewed/Date | | | Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐ |